Medical Alumni Bulletin

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Synthetic growth hormone research

Personality profile: Dr. Newton Fische

Medical Alumni Bulletin

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Behind the Lines

As reported last issue, one of your strongest recommendations for improving your publications was that we include more information about your fellow alumni. (Well, you personally may or may not have said this, but a representative sample of medical alumni responding to our readership survey did.)

Among the first things we have done as a result of this recommendation is to expand our news about medical alumni in this issue. And we plan to continue to offer more about C. Med. and M.D. recipients, basic science and allied health grads and former house officers. But you'll have to help. Be sure to let us know what's news with you, your classmates and other fellow alumni. Both personal and professional news are interesting. Send us your photo, too (black and white, glossy "mug" shot, preferably). Smiling faces brighten up the class notes page quite a lot.

There are some alumni we can't report on because we don't know where they are. From time to time, we lose track of individuals when they move to a new home and/or professional position. If your address should change, be sure to notify the medical alumni office. And if you know the whereabouts of any of the medical alumni currently "lost" (see page 17), let us know this, too.

The survey also showed that many alumni want to know more about research, specific programs and departments, and members of the faculty. Research reports now figure more prominently in our Extracts section, as longer articles continue to treat some projects in more detail. A specific program featured this time is the neurobiology curriculum. See page 8 for that one. News about faculty members is included in our new "Faculty notes" section.

This is the last time we'll mention it in this column: Medical Alumni Weekend 1984 is April 6-7. We hope you won't miss it, and that your classmates won't have to miss seeing you. Next issue, we'll feature highlights of the weekend.

And this column will start plugging this fall's Family Football Weekend and Medical Alumni Weekend 1985.

The photographer emerged from the photo session with tips on how to keep one's neck tie straighter and a clearer understanding of the anatomy of the ear. He also got a firsthand look at Dr. Newton Fischer in action as teacher and physician. Fischer explained what the students and patient needed to know, and he answered all their questions. He also answered the questions they didn't ask but which he thought they should.

The resulting photos accompany the article that begins on the next page.

—JWB

Being sent to Chapel Hill turned out to be a good idea

Fischer explains further what two medical students and a Bulletin photographer have just observed through the otoscope.

The worried young medical student entered the clinic deliberately yet unassumingly. His baby girl was at home with a really bad ear ache.

The nurse was sympathetic but explained that the small staff was already overextended by a large case load. Perhaps he should call back later.

At that point the chief physician paused in the reception area as he hastened from one patient to the next. He saw the medical student and read the distress in his eyes.

After hearing the young man's story, the physician told him to "dress the baby warmly and bring her over." It was well into the evening and the clinic had already seen more than 100 patients. But the physician acted as if this was his first patient of the day.

That young patient is now a graduate of the University. There's a snack bar where the clinic was. The clinic, North Carolina Memorial Hospital's ENT clinic, is in a newer wing of the hospital. The anxious young father—like the caring physician—has become a distinguished professor of otolaryngology in the School of Medicine.

But not everything has changed.

"I've seen that scenario repeated over and over many times through the years," says Dr. W. Paul Biggers ('63) of Dr. Newton D. Fischer's manner with patients. The first time Biggers saw that scenario, he was a primary character—the father of the baby with the ear ache. Repeat performances he's watched as a student, resident and now a colleague of Fischer's.

Fischer, the Thomas J. Dark professor of surgery in otolaryngology, believes that "Medicine is a special place where you can be useful." Since they opened the doors of N.C. Memorial, Fischer has spent countless long days being useful to patients, future doctors and fellow faculty members.

When he first came to Chapel Hill—from Texas via Johns Hopkins—Fischer was the *the* otolaryngologist. And he remained so for the first five or six years.

He began to seek aspiring physicians who were truly dedicated to the principles of medicine to train to be ear, nose and throat specialists. He continues to attract residents who uniformly go on to score in the highest percentiles on national specialty exams. Most have remained in North Carolina to the benefit of citizens throughout the state.

And, because several have remained in Chapel Hill, Fischer is no longer the only otolaryngologist at the medical center here.

"It's been very rewarding having people of this quality trust you enough to teach them to care for people," Fischer says.

A nationally recognized head and neck cancer surgeon, Fischer is "so skilled in all areas of ENT and able to teach refined techniques in all areas," says Biggers, J.P. Riddle distinguished professor of surgery in otolaryngology.

"Sometimes a technique that Dr. Fischer has been using for years and I've assumed is widespread will come out in the literature as a 'new' technique," Biggers says.

Fischer teaches his students "the importance of the area (of the body) you see on TV." Symptoms diagnosed in the ear, nose and throat region can be early warnings of serious problems affecting any other area.

That's why Fischer has his doubts about "minor emergency medicine." If you treat a problem as minor, it is more difficult to pick up something more serious that may be sending out early signals.

Thus, it is crucial to be thorough in examining the patient. This is a lesson Fischer underscores by example. "He's always that last one to leave the clinic," Biggers says.

So relying on your knowledge of the ears, nose and throat, you take care of the whole patient, using your skills as a surgeon, "if that's what's needed," Fischer says. "It's a great breakthrough when we can put them on a diet to cure their deafness."

Another aspect of Fischer's teaching is encouraging independent thinking. When there's a professional meeting involving Fischer's students-turned-colleagues, "you have a lot of strong minded people arguing with each other," Fischer says.

And no one escapes scrutiny. "Even though he's the highly respected chief of the service Dr. Fischer has to defend himself as well," Biggers says. "He's fostered that kind of climate.

"Dr. Fischer is held in high esteem nationally for the training program he has built here. A chairman of otolaryngology wrote in an editorial in a national professional journal that what

Fischer discusses his diagnosis with patient Donald Lupton and medical student Margaret Kiser.

otolaryngology needs is to have more chairmen like Dr. Fischer."

In 1981, former residents acted on their respect and esteem for Fischer by forming the Newton D. Fischer Society. The organization raises funds to support resident research, which Fischer has always believed to be a vital part of residents' education.

A native Texan, Fischer earned both a B.S. and a B.A. degree as well as his M.D. from the University of Texas. Following an internship at Minneapolis General Hospital, he returned to Texas for a year as an instructor in the Randolph Field School of Aviation Medicine. He completed his graduate medical education at Johns Hopkins University and joined the faculty there as an instructor in 1951. At Hopkins he came under the tutelage of Dr. Samuel J. Crowe who ultimately "sent me to Chapel Hill."

By the time the new hospital was opening in 1952 in Chapel Hill, Crowe's fondness for the people of North Carolina had been buttressed by the excellent care one of his horses had received at the hands of Dr. William Halstead during a vacation trip here. (More on the importance of caring for animals later.)

Asked to recommend a good ENT person for N.C. Memorial, Crow told Fischer he thought the younger surgeon was needed in Chapel Hill.

"I can't say the early days were either better or worse than now. Nor can I say now is either better or worse than then. They're just different," Fischer says.

Sure, it took a year or so to get an air conditioner. "But we were used to that. We'd never had air conditioning." And when the new air conditioner brought in garbage fumes each afternoon, Fischer creativity—air wick in the vent—took care of the problem until the trucks were rerouted.

Of course, everyone knows that when the medical center was smaller, everything was more personalized while "We're very fancy today," Fischer notes. The lack of so much bureaucratic structure made it easier to get many things done more quickly in the '50s.

Yet, because the institution also was young with much to prove, there was a driving sense of urgency.

"There was a sense of urgency to build one of the best medical schools and turn out the best medical students," Fischer observed. "And we do. This is a superior medical school."

A story Fischer seems to enjoy telling on himself concerns his first visit to Chapel Hill. He had no trouble following the roads to the MacNider Building. But because many of the Chapel Hill homes he passed on the way were set back among the trees, he returned to Baltimore saying, no, he had not seen Chapel Hill.

It's probably one of the few times Newton Fischer has missed the proverbial forest, in this case a town, for the trees. His dedication to thoroughness has been cited above. Add to this creativity and logic and you get the major elements of Fischer's approach to solving the problems his patients bring in.

"People sometimes ask me 'Why did you do it that way?' and I say, 'Because it was logical,' " Fischer says.

"I tell students, if you have a problem you can't solve, turn it upside down," Fischer says of a creative way to seek a logical solution. "That's not a new idea. It's been done in music forever."

It certainly was done in music in the early 1700s when Bach turned chords upside down composing music Fischer enjoys playing today on the harpsichord. Retreats to music and to relatively mindless tasks like gardening stimulate Fischer's creativity which leads to logical solutions to his patients' problems.

Even in his extracurricular activities, Fischer sets high standards. "I can't keep up with him in gardening," Biggers says.

The agricultural interests at the Fischers' extend to animals as well as plants. "His house is a Noah's Ark," Biggers says.

But there's logic even in collecting a menagerie.

"You have to teach children a reverence for life," Fischer says. "They learn by caring for animals before caring for people."

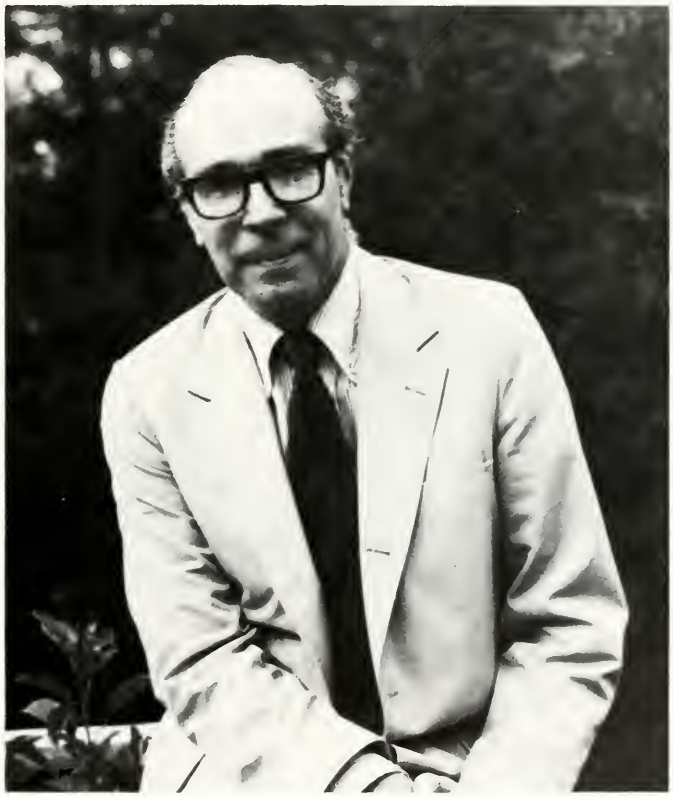
The lesson has been well learned. Dr. Newton Fischer and Dr. Janet J. Fischer, Sarah Graham Kenan professor of medicine, have five children. Four—including Jeannette Fischer Stein and Amelia Fischer Drake, both M.D. '81—have followed their parents into medicine, while the fifth is in chemistry, leaning toward pharmaceutical chemistry.

A lesson that probably had numerous applications was derived from an experience Fischer shared with Biggers many years after their first meeting in the ENT clinic.

"We were outside hot and sweating. Several of his animals were loose and other things were going wrong," Biggers recalls. "He put his hand on my shoulder and said, 'Paul, all these things started out as a good idea.' "□

Kiser, Fischer, Lupton and medical student Drew Furst

Dean's page



Since I write these words as the year 1983 draws to a close and 1984 begins, I am drawn to comment on the year passed and some perspectives of the year to come.

It seems to me that we can take great pride in the solid and substantial continuing advance of our School of Medicine and of the health care available to the people of North Carolina. All indicators that I know of suggest that, despite the recession of the recent past, the burden of disease and premature death for the people of North Carolina of all ages and races and both sexes has continued to be lessened. Certainly neither the health care system nor the medical schools of the state can take full credit for these remarkable advances but, along with the practicing physicians of the state, the hospitals of the state and the many other health care professions, we have had a substantial role in this dramatic and valuable contribution to our society. Our school is very proud of its alumni and what they have done for the health of the people of the state and the nation. I believe that the alumni can be very proud of the school for its great and continuing contributions in teaching, research and clinical practice.

1984 will surely be a year of considerable change in medical education and in medical practice. Changes in the financing of health care and medical education will introduce a higher order of organization into the relationships between physicians and third parties, physicians and hospitals, and the medical education system. It will, I think, be more important than ever that our institutions and our professional organizations work closely with practicing physicians to sustain and extend the great advances in health care and in the health of the people which have come about in considerable measure because of our medical education and health care system.

Our medical school would not be here in its present form had it not been for the dedicated support of wise and committed alumni in years past. It has reached its present strengths because of a great and devoted faculty and a broad base of informed support by alumni and others throughout the state. Our school will need that support even more in the future and in turn it must offer its help and support through its programs of teaching, research and service to its students and alumni and to all of the practicing physicians of the state.

Growth hormone still experimental; researchers urge use of caution

Eleven-year-old Timothy Shaughnessy is one of a group of short but otherwise normal children who recently began participating in a nationwide study of the effects of synthetic growth hormone. Timothy was featured in NBC's Today Show in December during a segment in which Drs. Louis Underwood and Brian Stabler were interviewed live in NBC studios in New York. Here, family nurse practitioner Patti Rieser explains the treatment to Timothy.

Physicians throughout the country are being cautioned that the use of synthetic growth hormone in short, but otherwise normal, children still is experimental and should be strictly limited until further research is done.

Synthetic growth hormone has proven to be an effective treatment for children suffering from hypopituitary dwarfism, a growth deficiency caused by the absence of the growth hormone normally produced in the pituitary gland.

But Dr. Louis Underwood, professor of pediatrics at the School of Medicine, says a great deal of research must be done before its use can be advocated in short children without growth hormone deficiency.

"So far we have no reliable methods for predicting which normal short children will respond to growth hormone therapy," Underwood said. "We know the growth hormone is a potent agent with a variety of important metabolic effects, but we do not know what the long-term side effects of prolonged therapy in children without a growth hormone deficiency may be."

Underwood is chairman of the Lawson Wilkins Pediatric Endocrine Society's national committee on growth hormone usage which published a position statement in the December issue of the journal Pediatrics.

He said there is still a need for controlled studies of the effect of the synthetic hormone on children who are short for reasons other than a growth hormone deficiency. "We don't know whether it works on otherwise normal children," he said, "and we don't know what its side effects might be."

The School of Medicine and North Carolina Memorial Hospital recently began to participate in a national study to test synthetic growth hormone on a group of small but otherwise normal children. Synthetic growth hormone has only been available for research purposes in the past three years. Until now there has been a shortage of natural growth hormone because it was available only from human pituitary glands removed after death.

Food and Drug Administration approval of the synthetic growth hormone distributed by Genetech, Inc. of San Francisco is expected early this year, Underwood said, and the pediatric endocrine committee is concerned about the abuse of the drug once it is widely available to physicians throughout the country.

There are about 15,000 children in the United States who suffer from hypopituitary dwarfism, but an estimated one million more are shorter than 97 percent of their peers.

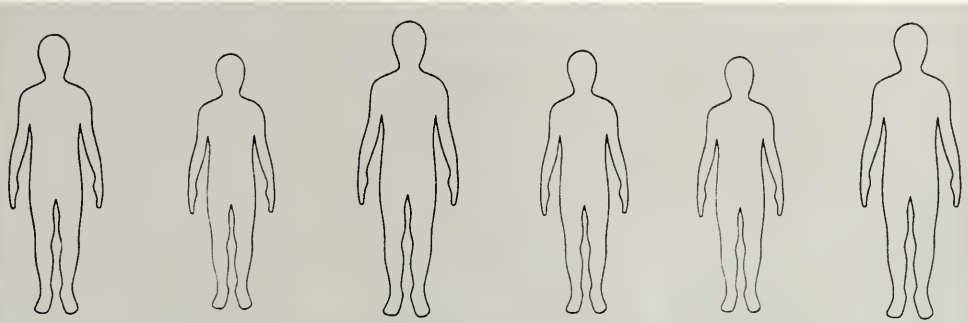
The FDA approval would only pertain to use of the synthetic hormone in growth hormone deficient children. "Before prescribing growth hormone to other short children," Underwood said, "the pediatrician should balance the perceived need for growth, and the possible psychological benefits if growth occurs, against the cost of the hormone, the emotional burden on the family and the risk of harm if the therapy should fail.

"Researchers and clinicians should remember that short stature is never fatal," he said, "and any handicaps resulting from it invariably have psychological origins. Even for ex-

perimental studies, growth hormone therapy should be restricted to children in whom there is reason to believe that emotional status can be significantly improved by treatment. An absolutely essential part of the care of any short child is to recognize and treat psychological problems and emotional needs."

Underwood said the traditional role of a pediatrician is to take a sick child and make him or her better. "With growth hormone we're talking about taking normal, well children and giving them something which may or may not improve them. Therefore, such treatment should not be undertaken without a great deal of thought and without exercising caution."

Underwood and other members of the growth hormone committee recommended that physicians adhere to an old adage when considering growth hormone therapy for their patients. "If it ain't broken, don't fix it." □



Children receiving growth hormone therapy often have unrealistic expectations of the treatment, so physicians should consider their psychological as well as physical needs, according to a pediatric psychologist at the School of Medicine.

Dr. Brian Stabler said a recent study showed that nearly 45 percent of abnormally short children and their families thought they were taller than they actually were in relation to their peers. Nearly 80 percent of the families had unrealistic expectations of how tall their children would be after growth hormone treatment.

The study, conducted through the pediatric endocrine clinic at North Carolina Memorial Hospital, was published in the October issue of the journal Clinical Pediatrics.

"As health professionals we have great optimism about the outcome of growth hormone therapy," Stabler said. "But we aren't always able to impress on the family the fact that our optimism is based on fairly small changes in growth rate and height. We're talking centimeters and they're thinking inches."

The Chapel Hill researchers have developed a visual aid to determine what children and their parents think about their height and the outcome of therapy. They show patients silhouettes of children of various heights and ask them to choose the ones which most clearly match their present and future size.

Stabler said the technique works well in family conferences and is a good way to get physicians and families talking about their expectations and concerns.

He emphasized that growth hormone is best administered to children in consultation with a psychologist or other mental health professional. "It's not enough simply to give the hormone. Short stature is not a purely medical condition—it's a social experience, and as such must be managed with attention to a patient's psychological needs."

In addition to unrealistic expectations of therapy, short children often face emotional problems which demand attention when they start growing, he said.

"Very short kids often have a special status and they can become uncomfortable when they go from exceptionality to mediocrity through growth hormone treatment," Stabler said. "Many of them are able to use their special status as a short child to gain security, to be protected from their peers and from academic challenges, sports and chores. Growth hormone therapy tends to threaten that degree of comfort."

Stabler said health professionals may treat short children without fully preparing them for what is to come. "This may eventually lead to the situation where a youngster one day says 'I didn't ask to be taller, I liked the way I was.'

"The medical treatment may work well, but the psychological effects can be devastating. The end result is a taller child who is still psychologically very short."

Some questions best answered through interdisciplinary approach

Dr. Beverly Lyn-Cook is one of several post-doctoral fellows conducting research through the interdisciplinary neurobiology curriculum.

"Basic research studies concerning the function of the nervous system are often carried out within the disciplinary boundaries represented by individual departments in the medical school. However, many of the questions concerning the function of the nervous system can best be tackled by interdisciplinary methods—for example, combining approaches from the behavioral sciences—and anatomy, or biochemical and electrophysiological techniques," says Dr. Pierre Morell, director of the School of Medicine's curriculum in neurobiology.

The neurobiology curriculum offers an integrated training program providing background in behavioral, morphological, biochemical, pharmacological and physiological approaches to the study of the nervous system.

The interdisciplinary training program involves faculty from basic science and clinical departments in the School of Medicine, as well as from other departments on campus such as psychology and biology.

About 25 students are enrolled in the four to five-year program which leads to a Ph.D. in neurobiology and there are usually six or seven postdoctoral trainees.

"One of our students, Christopher Honda, is doing research which involves both electrophysiological, neuroanatomical and immunological techniques to define the function and properties of certain neurons in the spinal cord," Morell said. "This type of approach helps us to understand how the normal spinal cord functions and, perhaps more importantly, is necessary to understand the mechanism by which certain pathways in the spinal cord may regain function following injury."

Honda is working with Dr. Edward R. Perl, professor and chairman of the department of physiology.

Another neurobiology student, Christine Ingraham, is studying how certain specialized brain cells form

myelin, the fatty white material which surrounds the processes of neurons and is essential for normal function of the nervous system. Myelin may be damaged by such diseases as multiple sclerosis, as well as by overexposure to certain environmental toxins.

Ingraham is working in the lab of Dr. Ken McCarthy, assistant professor of pharmacology, to learn how to isolate the myelin-forming cells of the brain and grow them under conditions where they will continue to form myelin.

"Development of such a system will make it easier to study the mechanisms by which disease or toxins can damage myelin and eventually facilitate studies about how such damage may be reversed," Morell said.

The Curriculum in Neurobiology also supports specialized types of postdoctoral training. As part of his residency training in neurological surgery, Dr. Stefan Pribil is spending a year learning and using a variety of immunologic techniques in the neuro-oncology research labs under the direction of Dr. G. Yancey Gillespie, research associate professor of surgery and pathology.

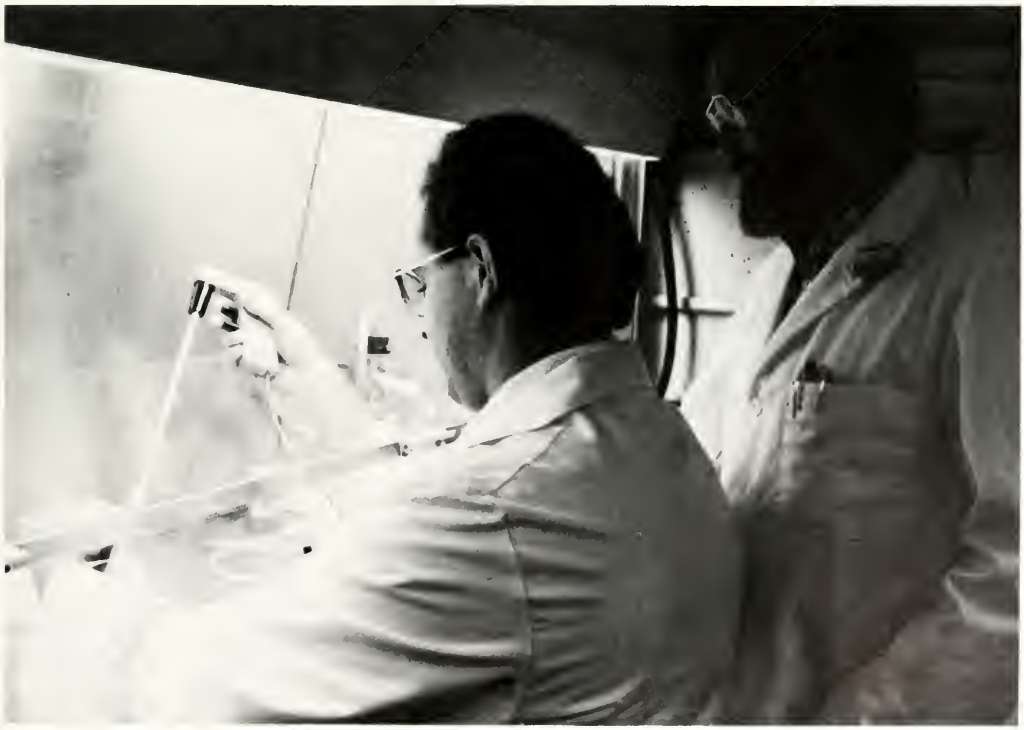
Pribil is measuring functional changes in specialized white blood cells of brain tumor patients who are receiving interferon therapy. "Dr. Stephen Mahaley is conducting the only clinical trial of interferon therapy for malignant brain tumors in the country and the laboratory studies Dr. Pribil is involved in will improve our understanding of how interferon can best be used for this devastating disease," Gillespie said.

Another postdoctoral fellow, Dr. Beverly Lyn-Cook, is examining the mechanism by which certain brain proteins may be modified by experience in a training situation. Her work, conducted with Dr. John E. Wilson, professor of biochemistry and nutrition, requires a combination of biochemical, pharmacological and behavioral techniques.

"The involvement of these trainees in interdisciplinary research benefits the faculty as well as the students," Morell said. "Since the graduate training program involves research in a variety of disciplines, students often are able to transfer new techniques and approaches from one laboratory to another."

The Curriculum in Neurobiology receives federal training funds from the National Institute of Neurological and Communicative Disorders and the National Institute of Mental Health.

Morell, serving his second term as director of the curriculum, is professor of biochemistry. He also serves as director of the Biological Sciences Research Center's neurochemistry lab. □



Dr. Stefan Pribil (left) is participating in the neurobiology program as part of his residency training in neurological surgery. Dr. G. Yancey Gillespie (right) is supervising Pribil's studies.

Extracts

Dr. Edward Chaney, associate professor of radiation therapy, demonstrates the medical center's new hyperthermia machine which is used for patients with large, advanced or recurrent tumors.

Physicians here have begun tests of hyperthermia in the treatment of tumor cells.

The treatment involves heating tumor tissues with microwaves to reduce their size and make the patient more comfortable.

Hyperthermia has shown promise in early studies conducted on 23 patients in Chapel Hill. There has been increasing interest in this additional treatment method for cancer following surgery, radiation therapy and chemotherapy.

The medical center is testing a $100,000 hyperthermia machine manufactured by Clini-Therm Corp. of Dallas, Texas. The device has been approved for investigational studies by the U.S. Food and Drug Administration and placed with the hospital under a contractual agreement with Hyperthermia Associates Ltd., a research and development group.

Previously untreatable warts have been eliminated by an anti-cancer drug called bleomycin in clinical studies conducted by dermatologists at the School of Medicine.

The physicians treated 40 patients with a total of 151 warts and destroyed 81 percent of the warts with only one or two injections of bleomycin. None of the warts has recurred.

"The drug really performed amazingly well," said Dr. Edward J. O'Keefe, associate professor of dermatology and a member of the UNC-CH Cancer Research Center. Results of the study, conducted by O'Keefe and Dr. Steven M. Shumer, who is now in private practice in Michigan, were reported in the July issue of the Journal of the American Academy of Dermatology.

Bleomycin is licensed for use against warts in Canada but is not sold as a wart treatment in the United States. O'Keefe said the long-term effects of bleomycin are unknown. He noted that there is some evidence that certain anti-cancer drugs may actually cause tumors.

O'Keefe said there are plans to conduct a second study at UNC-CH to determine if smaller doses of bleomycin are equally effective in destroying warts.

Public response indicates that the medical center's campaign to increase awareness and understanding of Rocky Mountain Spotted Fever was a valuable and much appreciated public service.

Between June 1 and Oct. 1, a total of 518 people from all over the state called or wrote the office of medical center public affairs requesting copies of a free brochure on tick fever prepared by the emergency department and the public affairs office. Some requests were from individuals wanting one or two copies; others were from health departments, schools, camps and businesses wanting several hundred copies each. In all, more than 9,000 copies of the brochure titled "Ticks Aren't Just Ugly—They're Dangerous" were given away.

Extracts

A summary of the information and advice contained in the brochure was recorded and put on an answering machine which people could call by dialing 968-TICK. Between June and October, 1,018 people called to learn about ticks and tick fever.

An experimental instrument that can tell physicians what is happening inside the brain without surgically invading the skull is being tested by trauma specialists here.

The instrument, called a niroscope, sends harmless infrared light through the skull and then measures how much of the light emerges on the opposite side of the head. Increases in the amount of light measured show a decrease in the oxygen supply to the brain, according to Dr. Herbert J. Proctor, professor of surgery.

In a study reported at the 69th annual clinical congress of the American College of Surgeons in Atlanta, the researchers found a 100 percent correlation between the signals measured by a niroscope and data obtained with a surgically inserted pressure sensor.

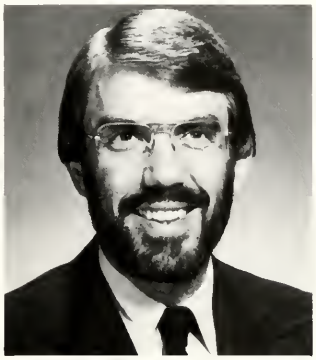
Proctor said the niroscope not only can monitor brain function without surgery, it can tell researchers how much blood is in an animal's head and how much oxygen is in the blood.

Working with Proctor on the project are research assistant William Palladino and graduate student Drew Fillipo. The niroscope being used in the research was developed by Dr. Frans Jobsis, professor of physiology at Duke University.

Dr. H. Garland Hershey has been named vice chancellor for health affairs at the University of North Carolina at Chapel Hill.

Hershey succeeds James R. Turner, who had been head of the Division of Health Affairs—as associate vice chancellor and then vice chancellor—since 1980.

Hershey is professor of orthodontics and associate dean for academic affairs in the School of Dentistry, where he has been a faculty member since 1971 and an administrator since 1975. He also is director of graduate education for the school.



Dr. Hershey

He came to Chapel Hill in 1971 from the University of Iowa, where he had been a faculty member in oral diagnosis and orthodontics and a staff research assistant in a cleft palate program while completing his graduate and professional education. He received his D.D.S. degree and his master's degree in orthodontics from the University of Iowa College of Dentistry.

Selected male college students at UNC-CH will be taking more than a semester's knowledge and their writing ability into exams during the next three years.

They'll also be wired for sound.

Beginning in 1984, psychologists at the School of Medicine will attach portable blood pressure and heart rate monitors to the students before exams and before less stressful situations like attending class.

The purpose is to learn whether the young men respond to stress in natural settings in the same way they react to stress that has been artificially created in the laboratory.

If the heart and blood pressure readings gathered in both locations agree, information collected in the laboratory should be more credible, the scientists believe.

"Our ultimate goal is to identify psychological and social risk factors that lead to high blood pressure in both white and black populations," said Dr. Paul Obrist, a professor in the department of psychiatry.

Obrist will conduct the study with Drs. Kathleen C. Light, assistant professor of psychology in the department of psychiatry, and Sherman James, associate professor of epidemiology in the School of Public Health. The National Heart, Lung and Blood Institute is supporting their work with a $232,000 grant.

Six of 17 recipients of the University of North Carolina Board of Governors Medical Scholarships for 1983-84 are attending UNC-CH.

They are Shawn Austin Gerald of Lumberton, Jama Bland Greene of Raleigh, Everette Benard Hambric of Troy, Linda M. Raines of Matthews, Joseph E. Roberts Jr. of Pembroke, and Gerrie Michelle Shiver of Rocky Point.

The 1974 General Assembly authorized the scholarships as a means of providing increased medical education opportunities for financially disadvantaged students of all races. The scholarships may be used for study at any of the state's four medical schools.

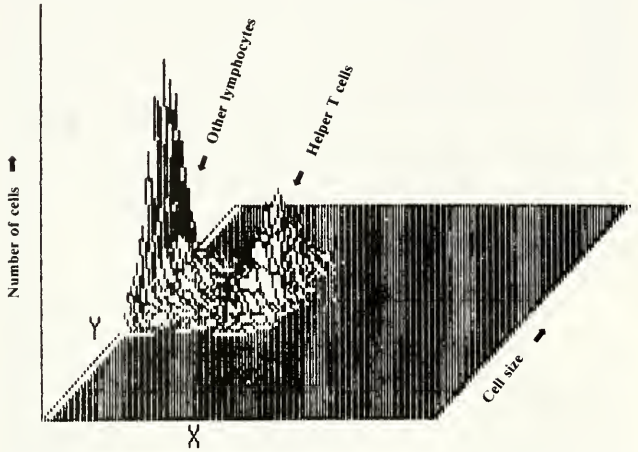
Each scholarship provides full payment of tuition and mandatory fees plus an annual stipend of $4,000. Between 1974 and 1978, 15 scholarships were awarded each year. Beginning in 1979, the number of annual awards was increased to 17.

The North Carolina Area Health Education Centers Program, headquartered at the School of Medicine, has been presented a special award recognizing its contributions to adult education in the state.

The award, given by the North Carolina Adult Education Association, cited the AHEC program for its creativity, effectiveness, scope and dedication to the objectives of adult education. It was presented by Dr. James H. Camp, director of educational services for the North Carolina Hospital Association.

Extracts

"It's like having a million researchers with a million microscopes." That's how Dr. Geoffrey Haughton describes the new flow cytometry equipment at the School of Medicine.



A computer printout from the flow cytometer shows helper T cells distinguished from other lymphocytes in a normal blood sample. In both AIDS and lupus, the number of helper T cells is abnormal.

The $250,000 equipment can rapidly analyze cells and other particles to detect and identify differences among them. It can take six measurements simultaneously on 5,000 cells per second and store the data for future analysis.

"These machines can count and identify all the different types of white blood cells in a group of 40,000 cells in about 30 seconds," explained Haughton, a professor of microbiology and immunology and director of the flow cytometry facility. He said a lab technician examining a stained smear under a microscope would only be able to look at 200 cells at a time with much less accuracy.

"The applications of this new technology are only limited by the investigator's imagination," Haughton said.

Funding has been provided by the Cancer Research Center, the dean's office, the departments of surgery, medicine, microbiology and immunology. □

Class notes

Manning-Berryhill Club

"Dr. MacNider was the best friend I ever had," **Cora Corpening Kornegay, C. Med. '16,** recalled recently. The UNC-CH School of Medicine's first female student, Kornegay went on to become in 1918 the first woman to graduate from the Tulane University School of Medicine. "Dean Manning referred me to Tulane," she said.

She has been retired for the past 15 years. "I did 50 years of general practice before retiring at 77 and have since enjoyed golf, lots of travel and social life with many relatives and friends."

Russell O. Lyday, C. Med '18, of Greensboro has been retired from surgical practice for eight years.

William S. Wall, C. Med. '31, has received his 50th year pin this year. He's "still going strong from 9 to 4," limiting his dermatology practice to skin contents.

Charles Houston Gay, C. Med. '31, of Charlotte retired from private practice in pediatrics Aug. 15 after 50 years. He and his wife Mary went to New Orleans last March for Mardi-Gras.

They have three children, Charles (Chuck) Jr., Marcia and Susan. Charles Jr. is a jet engineer at G.E. in Cincinnatti. He and his wife, Aggie have three daughters in school. The girls are Wendy, Susan and Becky. Their hobbies are playing soccer, studying the piano and one other instrument each. Chuck finished at NCSU.

Marcia and husband, Jim Rosenblatt, have two sons James (Chip) Jr., and Bradley (Brad), both are in school and are interested in sailing. Jim is a UNC graduate. Marcia attended UNC and graduated from Queens College. She is involved in the diabetic association. Jim is a salesman at Wayheyser.

Susan and her husband, Dickson Gribble, both graduated from UNC and have one daughter, Ashley, 10 yrs. old. In addition to school Ashley is taking piano and guitar lessons. Their son Scott, who is 2, lives up to his age. Dickson played basketball for UNC, and is making the armed services his career. He's currently a major. Susan is interested in community services, including teaching in Sunday School.

Sherwood W. Barefoot, C. Med. '36, retired in July 1983 from his dermatology practice in Greensboro.

W. A. Vannortwick, C. Med. '37, is still

Class notes

with the McIver Urological Clinic in Jacksonville, Fla., with part-time office hours.

Robert E. Sumner, C. Med. '40, of Rock Hill, S.C., has been in retirement because of his health for the past four years. He is now working 9-12, Monday, Wednesday and Friday mornings at the satelite clinic. He and his wife Betsy enjoy their children but even more their six grandchildren.

John F. Lynch, C. Med. '42, is still practicing pediatrics full time in High Point. He has been reappointed chairman of the North Carolina Medical Care Commission.

40s

Ben M. Gold, C. Med. '45, of Rocky Mount retired from his ob/gyn practice in 1980, because of a brain tumor operation (benign tumor). He and Cora, his wife, have two living sons. Benje (Ben Gold Jr.), age 25, is the manager of "2 Steps Ahead" a new sporting apparel store in Crabtree Valley Mall, Raleigh. Warren is at Chowan College and on the golf team.

Ira Abrahamson Jr., C. Med. '46, was the guest speaker on "Planned Extracapsular Cataract Extraction with Implanation of a Posterior Chamber Intra Ocular Lens," in February 1983, at the New Orleans Academy of Ophthalmology. In July he attended the Pan American Congress of ophthalmology in Lima Peru. May and July he was at the Cincinnati Hospitals University in Bethesda. in September he was speaker at the department of ophthalmology at UNC-CH and at the University of Manitoba, Winnipeg, Canada. In November, he received the Key Physician Award of the American Academy of Ophthalmology in Chicago.

Morton E. Pizer, C. Med. '46, has retired from private practice of pediatrics after 29 years in January of '83. Pizer is now working at the Student Health Service at N.C. State and is enjoying it very much.

Franklin G. Norris, C. Med. '49, of Orlando, Fla., says "I'm hoping some of our classmates will pay us a visit."

50s

John L. McCain, C. Med. '50, has become chair of the N.C. State Health Coordinating Council, after completing his term as chair of HSA VI. He is still serving on the National Council on Health Planning and Development (appointed by President Jimmy Carter). He continues to enjoy his full-time rheumatology practice in the Wilson Clinic.

Luther W. Oehlbeck, C. Med. '51, says "after 25 years of circuit-riding pathology, which includes relationships with friendly hospital administrators and supportive fellow physicians, am now retired in SW Florida, enjoying the companionship of my wife, watching the children go through middle age and grandchildren grow—a little gardening, music, photography and boating suffice!"

Roy Jackson Blackley, C. Med. '51, has returned to the position of director of medical services at the N.C. Division of Mental Health, Mental Retardation and Substance Abuse Services in October of '82. He sees a few classmates from time to time. He says he enjoyed the unveiling of the portraits of the former Deans Taylor and Fordham.

Charles Frederick Simpson, C. Med. '51, retired in 1979 because of a disability. He is now living in the country on his own farm near Atkinson. "I have a wonderful wife and two normal children (Jayne Ayre, age 12, and Julian Frederick 'Jeff' age 14) all in good health," he writes. He spends his time "doing some of the things I always wanted to do and could not find the time."

George P. Vennart, M.D. '56, of Richmond has been appointed regional commissioner (South-East U.S.) for laboratory accreditation—College of American Pathologists.

George S. Edwards, M.D. '57, has three grandchildren, Nancy Lee Fitzgerald, age 3; Susan Edwards, age 4 and George III, age 1. His son George Jr., finished orthopaedic residency in San Antonio this past June and is now in Boston taking a year's hand fellowship at Mass. General.

T. Albert Farmer, M.D. '57, chancellor of the University of Maryland at Baltimore, has been elected 1983-84 chairman of the board of directors of the Association of Academic Health Centers.

Julian W. Selig Jr., M.D. '59, reports that he and his wife, Betsey, both Elizabeth City natives, left Norfolk in May '83 and have returned home. They have enjoyed spending time at Kitty Hawk. Selig's son Wood has finished Washington and Lee University this year and daughter Susan is a sophomore at James Madison University. Selig says he is looking forward to the class of '59 25th reunion in April.

Iverson Riddle, M.D. '56, director of Western Carolina Center, was presented the 1983 Distinguished Service Award by the Association for Retarded Citizens of North Carolina when the organization held its 31st annual meeting in Charlotte recently.

Riddle was nominated for the award by ARC of Mecklenburg-Union Counties, Inc.

The founding director of Western Carolina, Riddle has served in that position for the past 20 years.

According to ARC officials, Riddle was chosen for the award because "he has chosen to remain in our state, of the services he has rendered to Mecklenburg and Union county residents during the past 20 years, and his gentle touch to the those retarded citizens of counties presenting the award.

"Dr. Riddle's programmatic contributions to mentally retarded individuals include the development of an innovative philosophy in the fields of human rights and advocacy; his commitment to community outreach services; and the development of an infant stimulation program and a research institute.

"He developed a cooperative program between Western Carolina Center and the Western Correctional Facility and a foster grandparent program, and in an effort to meet the continuing needs of mentally retarded persons, developed the Black Mountain Satellite, now the fifth mental retardation center in the state.

"Much of the state legislation that benefits the state's mentally retarded citizens is on the books today because of Riddle's tireless efforts."

After being offered a chair of the Harvard medical faculty and directorship of the Enice Shriver Center, a subsidiary of the Kennedy Foundation affiliated with the Joseph P. Kennedy Jr. Memorial Laboratories for Mental Retardation of Massachusetts General Hospital, Riddle declined the offer saying:

"I was both fascinated and honored by the possibilities. However, I am deeply committed to the needs of our state's retarded citizens, and to their families, and consequently, must refuse the offer in order to continue to serve as director of Western Carolina Center."

Class notes

William E. Easterling Jr., M.D. '56, has been reappointed associate dean for clinical affairs in the School of Medicine and chief of the medical staff of the N.C. Memorial Hospital.

The five-year reappointment, effective April 1, 1984, was announced by Dr. Stuart Bondurant, dean of the UNC-CH School of Medicine, and Eric B. Munson, executive director of N.C. Memorial Hospital.

Easterling earned an A.B. degree from Duke University in 1952 and received his M.D. degree from UNC-CH in 1956. He completed his internship and residency training at N.C. Memorial in 1961.

Following military service and postdoctoral training in reproductive physiology at the University of California at Los Angeles, Easterling returned to Chapel Hill in 1964. That year he was appointed to the School of Medicine faculty as assistant professor of obstetrics and gynecology. He was promoted to associate professor in 1967 and became a full professor in 1972.

Iris H. Hall, Ph.D. '65, presented at a recent news conference results of studies indicating that cyclic imides can reduce the level of cholesterol and other fatty substances in the blood by as much as 60 percent.

Hall, an associate professor in the UNC-CH School of Pharmacy, said the compounds, which work at very low doses and without apparent toxicity, produce their dramatic effect by blocking the mechanism by which cholesterol becomes part of the fatty plaque that progressively blocks arteries.

If the cyclic imides pass a series of long-term animal studies and clinical trials, they would be far superior to any drugs now on the market for controlling blood fat levels, the researcher added, and could become a major new weapon in the fight against cardiovascular disease.

In an earlier interview in Chapel Hill, Hall said cyclic imides already have been used in humans with limited success as sedatives, hypnotics and anticonvulsants.

The UNC-CH research involved subjecting both human cells and rat liver cells—in the presence of the cyclic imides and other compounds—to radioactively labeled complexes of low density and high density lipoproteins, she said.

Levels of radioactivity measured in the cells afterward indicated the extent to which the cells were taking up cholesterol just as they do during formation of plaque on artery walls.

Hall and her colleagues at UNC-CH expect to receive a patent on synthetic cyclic imides and their cholesterol-lowering properties soon. Drs. Wallace L. Williams Jr., a postdoctoral fellow, and Steven D. Wyrick, assistant professor of medicinal chemistry at UNC-CH, are collaborating in the research.

60s

Dave M. Davis, M.D. '63, tells us his son Scott is a freshman at UNC, and a cornerback on the football team. Davis will be collaborating with Dr. James Osbert to teach "Advanced Seminar for Certification in Administrative Psychiatry" at the UNC medical school in 1984. He was elected president of the Georgia Chapter of the American Association of Psychiatric Administrators for 1983-1984. Davis is in private practice in Atlanta and would like to build a psychiatric hospital for children and adolescents.

Bruce F. Caldwell, M.D. '63, of Clinton has begun full-time emergency room work but still assists at surgery and puts in pacemakers. He moved into a new home in October. Son Jeff graduated from UNC-CH this summer.

Chester W. Taylor Jr., M.D. '63, Hawaii psychiatrist and marathon runner, reports, "My 8-year-old son, Chet III, recently took first place in his age group, 6-11, in our yearly 13.1-mile half marathon." Both father and son were to have run in the 5th Honolulu Marathon in December. Taylor invites classmates "to visit paradise and me." He also sends congratulations to classmate-astronaut Bill Thornton "for doing an excellent job in space!"

Richard W. Honsinger Jr., M.D. '65, has been named president-elect of the New Mexico Chapter of the American College of Physicians.

Donald P. Whitley, M.D. '65, says his usual traveling consists of Chicago, N.Y. and California, but his best is to North Carolina. Whitley is president of the Richmond Radiological Society and chief of service (radiology) at Johnston Willis Hospital in Richmond. Whitley sends a message to his classmates, "support our medical school with good hard cash or equivalent—the medical school helped enable our financial prosperity."

Donald A. Thomas, M.D. '66, was elected chief of staff of Pardee Memorial Hospital in Hendersonville, January 1983, for a two-year term. He's practicing in Hendersonville in a group of five pediatricians. They have three offices, including satellites in Brevard and Fletcher. His daughter Sheryl is a senior at UNC-CH this year.

R. Donald Garrison, M.D. '67, was remarried in December 1982 to Susan C. Morgan. During the past six years, he developed an interest in scuba diving. He recently returned from the Cayman Islands following a week-long dive trip. Garrison is also a fledgling snow skier and is looking forward to improving his ability. He continues to be deeply involved in the pediatric teaching program at the University Hospital in Jacksonville, Fla., and busy as a level III neologist. His division now consists of six neonatologist serving two tertiary care nurseries and two level II nurseries with more than 10,000 deliveries per year.

Robert H. Bilbro, M.D. '66, is finishing a term as president of the medical staff of Wake County Hospital systems.

Class notes

A. Everette James Jr., M.D. '63, chairman of radiology and radiological services at Vanderbilt Medical School, published three textbooks in 1983. "Nuclear Magnetic Resonance" appeared in January, followed by "Digital Radiology" the next month. "Real Time Ultrasound" was published in November.

James, who also has a law degree, is a fellow of the American College of Legal Medicine and senior research associate in Vanderbilt's Institute for Public Policy. He lectures on legal medicine in the department of medical administration there.

Family members have continued the UNC-CH ties. "Everette III, co-author of 'Eugene Thomason: The Ashcan Artist Appalachia,' is a senior at UNC, Jeanette graduated from UNC in May 1983 and Jeanette II attended UNC summer school this year." James writes.

James says his extracurricular projects include serving on the board of an art museum in his hometown, Robersonville, and on the Nashville Arts Council. He's also Belle Mead indoor singles champ in his age group.

James has published 37 manuscripts on medicine, policy, law and art. He's lectured in India, Denmark, Hawaii, the Netherlands, and West and East Germany.

Nelson B. Watts, M.D. '69, has moved from his private practice in Asheville to a position as senior associate in medicine (endocrinology) with the Emory University Clinic in Atlanta.

Don C. Chaplin, M.D. '69, of Burlington has been elected president of the North Carolina Society of Internal Medicine. He has just completed his term as the 1983 campaign chairman of the Alamance County United Way, surpassing 111 percent of their goal. **William B. Wood, M.D. '56,** is president-elect of N.C. S.I.M. Wood is associate professor of medicine at UNC-CH, where he also is director of continuing medical education and alumni affairs.

Dr. Chaplin

70s

Dan Gottovi, HS '70, and his sons became the sail boat racing champs of North and South Carolina by winning the 1983 Wilmington-Charleston Labor Day race.

Michael Allan Moore, M.D. '70, of Danville, Va. is currently serving as president of the Virginia Affiliate of the American Heart Association.

Dewey Walker, M.D. '70, recently became project director of a four-year grant from the Robert Wood Johnson Foundation to screen young children for speech language and hearing problems. Walker is a developmental pediatrician, working with the audiology division at the University of Colorado Health Sciences Center where he is on the faculty.

Nady M. Cates, M.D. '73, of Fayetteville recently passed the recertification exam for the American Board of Family Practice.

John E. Estes Jr., M.D. '73, is a research associate in the department of pharmacology and the Cancer Research Center at UNC-CH.

J. Scott Luther, M.D. '74, is assistant professor of medicine in the neurology department and director of the Centers for the Advanced Study of the Sleep Disorders and Epilepsy at Duke. This special clinical research has centered around the evaluation of patients with medically intractable seizures for possible surgical intervention to establish better control.

David A. Rockwell, M.D. '74, has been enjoying private orthopaedic surgery practice in Goldsboro for the last four years. Rockwell and his group are looking for a fourth partner to join them.

He and his wife Gail have three children, Rocky, 7, Brooks, 4, and Lisa, 1. "All are a joy!" Fall time windsurfing has added to their old love of sailing. "Can't wait for 1984 10th reunion—hope to see the whole class," Rockwell says.

Ken R. Kulp, M.D. '74, has been in solo practice of dermatology and dermatologic surgery in Winston-Salem for four years. He completed his general surgery internship and one year of general surgery residency at Hershey Medical Center in Hershey, Pa., prior to completing a residency in dermatology at the University of Tennessee Center for Health Sciences in Memphis.

Robert L. Chevalier, HS '75, is currently associate professor of pediatries (nephrology) at the University of Virginia. His wife, Janis, is a volunteer at the Bayly Museum and daughter Juline is in the first grade.

John J. Cannell, M.D. '76, is married and has two sons, ages 2 and 5. Cannel is a general practitioner in Flat Top, W.Va.

Kirkwood F. Adams Jr., M.D. '76, has been appointed clinical assistant professor of medicine at the School of Medicine. Adams has been a part-time faculty member and has had a private practice since completing his internship, residencies and fellowships in cardiology here.

Vincent (Eddie) Paul, M.D. '76, and **Melinda C. Paul, M.D. '77,** have two children, Adam, age 4, and Kirsten, age 1, "both enrolled for medical school in the next century at UNC." Eddie has opened the Guilford Orthopaedic and Hand Center with **Robert V. Sypher, HS '82,** in Greensboro. Melinda is associate child health director for the Guilford County Health Department with Moses Cone Hospital Pediatric Teaching Service. They both get back for Carolina basketball and football, and say, "Go Heels!"

William J. Blackley, M.D. '76, is in a three-(soon to be four-) person family medicine practice in the Elkin-Jonesville area. He has served as president of the Surry-Yadkin Medical Society for the last two years. Outside his busy practice, he is a boy scout leader and a church deacon. He and his wife Sandie have two children, Molly, 9, and Seth, 4.

Stephen E. Erlandson, M.D. '76, has recently formed Foothills Family Practice, P.A., a group of three family physicians in Elkin and Dobson. In the near future he will be looking for a fourth associate to replace a retiring associate. He is very interested in hearing from his classmates. He and wife, Linda have two children, Blythe and Ben. Erlandson is secretary-treasurer of the Surry Co. Medical Society. He is looking forward to seeing all his friends at the Internal Medicine Update '84.

Jerry L. Self, M.D. '77, has been assigned as of August 1983 as chief of the department of radiology at the Dwight D. Eisenhower Army Medical Center in Fort Gordon, Ga.

Michael A. Karr, M.D. '77, has successfully fulfilled the requirements of the American Board of Orthopaedic Surgery. Currently Karr is stationed at the Naval Hospital in Portsmouth, Va., where he is a member of the orthopaedic staff and head of the total joint replacement section.

Class notes

Judy Kramer Littlejohn, M.D. '77, has been in private practice in Murphy in internal medicine since 1980. She is married to Hawk Littlejohn and they have two children, Joshua Snowhawk, age 3½, and Beth Rising Fawn, age 2. All are enjoying rural life.

David C. Powell, M.D. '78, has completed chief residency in general surgery at the University of Kentucky. In July he joined the Wake Surgical Center in Raleigh, and says it's "great to be back in North Carolina." His two children—Rebecca, age 4, and David Jr., age 2—are already Tar Heel fans and love Carolina basketball despite being born in Kentucky.

Nicholas Patrone, HS '78, has been named assistant clinical professor of pediatrics and rheumatology and section head of pediatric rheumatology at the East Carolina University School of Medicine.

John Miles Jr., M.D. '79, is a member of three-man surgical group in Gastonia which has opened an office in nearby Cherryville. The group specializes in general, vascular and thoracic surgery. Their Gastonia facility houses a complete laboratory for non-invasive diagnosis of vascular diseases.

80s

Barry J. Freeman, M.D. '80, was chief resident in the department of anesthesiology at Los Angeles County—Southern California Medical Center before finishing his residency in January. He has entered fee-for-service practice in the Southern California area.

Dennis W. Ehrlich, M.D. '80, finished his residency in internal medicine at the University of California—Irvine Affiliated Hospitals in July 1983. He is currently in solo private practice in San Diego.

Nicole Ann Morris, B.S.P.T. '80, of Charlotte recently spent three months in Riyadh, Saudi Arabia, setting up a physical therapy department in the new King Fahad Hospital.

Janice Dixon Key, M.D. '80, and **Lyndon Key, M.D. '77,** recently went to Japan for two weeks where Lyndon spoke at the "International Convention of Calcium Regulating Hormones." They are expecting their second child in May.

C. Thomas Gualtieri, HS '81, assistant professor of psychiatry and director of the UNC-CH pediatric neuropharmacology clinic, appeared on NBC's Today Show July 28 to discuss a new study involving children and neuroleptic drugs. The study, which involved taking children off powerful tranquilizer drug treatment, showed that some of the youngsters suffered longlasting neurological damage from the drugs and that most did not need to be on them in the first place.

Charles B. Nemeroff, M.D. '81, Ph.D. '76, has accepted faculty positions in the departments of psychiatry and pharmacology at Duke University Medical Center. He will be involved in basic and clinical research as well as teaching and patient care.

Douglas S. Kernodle '81, married Sherry Lynne Swindle of Nashville, Tenn., on Sept. 10, 1983.

Thomas S. Graham, M.D. '82, announces the birth of his daughter Linda Michelle, born Nov. 2, 1982.

Leslie K. Chesson, B.S.P.T. '82, is director of the physical therapy department at Hoots Memorial Hospital in Yadkinville. She spent her first year out of school working in Ft. Myers, Florida.

Karen P. Beckerman, M.D. '82, and her husband moved to St. Louis in July, and announce the birth of their son Charles Murray, born Sept. 8, 1983. All are doing fine and would love to hear from classmates in the area or passing through.

Katherine L. Donovan, M.D. '82, and **Gerald Donovan, HS '64,** were married in Charleston on Oct. 16. Gerry is in private practice in Charleston. Kathy completed her internship in internal medicine at the Medical University of South Carolina and is now working with the neurology department there.

Paula Miller, M.D. '83, and Stephen Bishop Miller announce the birth of Jackson Freeman Miller, born Aug. 27, 1983.

Jonathan Edward Morris, HS '86, married Joyce Leslie MacKinnon on Nov. 6, 1983 in Raleigh.

Kenneth Locklear, M.D. '79, and **DeBenjamin Winter, M.D. '80,** were among the leaders of a pre-admission workshop, sponsored recently by the Association of American Indian Physicians (AAIP), a national organization.

The UNC-CH Medical Education Development program was host to the workshop which was held in Chapel Hill. Nearly two dozen American Indian pre-professional students participated.

Speakers, health professionals representing American Indian and other minority groups, discussed selecting a professional school, the application and admissions process, entrance exams, communication skills, academic support systems and financial aid. Students had a chance to put what they learned to use in mock interviews.

About half the students are from North Carolina, with the others coming from as far away as the state of Washington. Ten are in pre-medical college programs. The others are planning to go into dentistry, veterinary medicine, optometry or pharmacy.

Students selected to participate received transportation costs and a $20 per day stipend. Funding was provided by the Health Careers Opportunity Program of the U.S. Department of Health and Human Services.

The AAIP was formed in 1970 by a group of American Indian Physicians to seek to improve the health care of American Indians and Alaska Natives. A major effort of the organization has been identifying and encouraging young Indian people interested in the health professions.

"In 1970, there were fewer than 20 Indian physicians," said AAIP program coordinator Charles Eaves, "yet today there are more than 250. Nevertheless, an additional 1,500 Indian physicians will be required to reach parity with the number of physicians within the dominant society."

The MED program is an academic enrichment program of the UNC-CH schools of medicine and dentistry. It is aimed at students from disadvantaged backgrounds who have shown a strong promise for professional school.

Deaths

James David Andrews, C. Med. '46, Baltimore
Bertrand D. Arbuckle, HS '52, El Campo, Texas
Saul L. Avner, C. Med. '26, El Paso, Texas
Edwin B. Aycock, C. Med. '32, Greenville
David Kimberly Jr., C. Med. '22, Hot Springs
Robert L. McDonald, C. Med. '34, Thomasville
Henry Clay Newsome, C. Med. '43, Pilot Mountain
Fred. G. Patterson, C. Med. '35, Chapel Hill

Class notes

'Lost' alumni

The Medical Alumni Office does not have current addresses for the following. If you have pertinent information, please send it to 231 MacNider 202H, Chapel Hill, N.C. 27514.

James Harold Arnold, M.D. '48
Evelyn Marion Bargmann, M.D. '77
Tamara L. Sanderson Beecham, M.D. '76
Edgar Norman Boseman, C. Med. '28
Edward Christian Cameron, M.D. '75
Tonya Cottrell Claytor, M.D. '80
Lauren Elise Cosgrove, M.D. '80
Cecil Van Crabb, M.D. '77
Ellen Charliese Maxwell Dean, M.D. '81
Charles Hillman Edwards II, M.D. '73
Willie Stanley Edwards Jr., M.D. '81
Hattie Mae Faison, M.D. '80
Clarence Ernest Fogleman III, M.D. '75
Frank Burkett Fondren III, M.D. '75
Leverne Smith Fox Jr., M.D. '80
David Lee Gaston Jr., M.D. '79
Carroll Lee Gray, M.D. '66
Gary Howard Greenspan, M.D. '76
Sandra Lee Hanson Griffin, M.D. '77
Peter Colby Gruenberg, M.D. '77
Alfred Leon Harkley, M.D. '78
Tommy Ray Harris, M.D. '82
James Salwyn Henning, M.D. '71
Lottie Lane Joyner, C. Med. '36
Joseph Hodge, C. Med. '49
Margaretia Louise Jackson, M.D. '74
Carol Elizabeth James, M.D. '81
Charles Allen Johnson, M.D. '64
Donna Sue Jones, M.D. '81
Gregory Lee Jones, M.D. '78
Stanley Clark Jordan, M.D. '73
Lottie Lane Joyner, C. Med. '36
Konrad Casper Kaltenborn, M.D. '80
Michael James Kirby, M.D. '72
Paul Howard Kramer, M.D. '77
Peter Clark LaRowe, M.D. '64
Walter Glenn Lewis, C. Med. '36
Donald Howard McQueen III, M.D. '67
George Joseph Nassef, C. Med. '46
Gretchen Sampson Okiye, M.D. '77
Lanta Christine Oliver, M.D. '70
Terry Lyn Overby, M.D. '74
Michael Ray Owens, M.D. '68
Louis Morris Perlmutt, M.D. '77
Donald Lewis Person, M.D. '81
Frank Rainage Pilcher III, C. Med. '33
Thomas Burton Prebble, M.D. '79
Keith Maxwell Ramsey, M.D. '77
Karl Arthur Ray, M.D. '66
Robert Mack Rudisill, C. Med. '49
Howard Linward Russell, M.D. '78
Howard Sheldon Schub, M.D. '76
Albert John Sheldon, C. Med. '40
Sally Fleming Shu, M.D. '77
Miles Taylor Smith Jr., M.D. '80
William Duane Snider, M.D. '77
Jane Hooper Sprague, M.D. '81
John Griffith Steel, M.D. '77
Walter Judson Steele, M.D. '80
Nathan Robert Strahl, M.D. '84
Guy Kenneth Terrell, C. Med. '49
Diana Thompson, C. Med. '47
Charles Franklin Timmons Jr., M.D. '77
Cecil DeWayne Tripp, M.D. '60
James Peter Van Dorsten, M.D. '71
Zebulon Baird Vance Jr., M.D. '67
Raphael Williams Vinson, M.D. '57
William Matthew Vinson, M.D. '54
Tony Lee Walden, M.D. '81
Max Lee Wallace Jr., M.D. '74
Roger Atkinson Way, C. Med. '34
Wendell D'Alton Wells, M.D. '80
Anthony Hallock Wheeler, M.D. '77
Joseph Lee Williams, M.D. '76
Walter Howard Wilson, C. Med. '35
Robert Davis Winston, M.D. '83
Jerry Wayne Withrow, M.D. '80
Tommy Lewis Wood, M.D. '81
Douglas Graham Wysham, M.D. '80
Stephen Wiley Young, M.D. '68

Omission

Because of incomplete information supplied to the Bulletin, the following were inadvertently left off the honor roll of donors to the School of Medicine published in the previous (Fall 1983) issue: **Malcolm Fleishman, M.D. '54**, Fayetteville; **John W. Foust, M.D. '55**, Charlotte; and the Sigmund Sternberger Foundation, Greensboro.

Dr. Floyd A. Fried has been named the first recipient of the Doctors **John Sloan Rhodes (C. Med. '27)** and **John Flint Rhodes (M.D. '62)** Distinguished Professorship in Urology at the School of Medicine.

"The School of Medicine is deeply grateful to the Drs. Rhodes for establishing this professorship to help perpetuate the high standards of teaching and clinical practice for which they are so widely respected," said Dr. Stuart Bondurant, dean of the medical school.

"Dr. Floyd Fried has given strong and effective leadership to our urology division for 13 years. He is a distinguished teacher, clinician and investigator who richly deserves this tribute and will doubtless begin a tradition of excellence as the first person to hold this professorship," he continued.

The Rhodes professorship in urology was established earlier this year by a father and son physician team from Raleigh.

Dr. John S. Rhodes received his A.B. degree from UNC in 1925 and a Certificate of Medicine in 1927. He received his M.D. degree from Harvard in 1929. His son, Dr. John F. Rhodes, received a B.S. in 1959 and an M.D. in 1962 from UNC-CH.

Dr. John S. Rhodes began his practice in Raleigh in 1936 and has served as chief of the urologic service at Rex Hospital and as an associate clinical professor of urology at UNC-CH. He has been president of the North Carolina Urologic Association, the Raleigh Academy of Medicine and the North Carolina Medical Society.

He was president of the medical class of 1927 and is a past president of the Medical Alumni Association. In 1963 he received the School of Medicine's Distinguished Service Award.

Dr. John F. Rhodes is a urological surgeon and partner in the firm Wake Urology. He is active in the North Carolina, Southern and Wake medical societies, the Raleigh Academy of Medicine, the American Urological Association and the American Medical Association.

Fried, the first recipient of the Rhodes professorship, has been chief of the division of urology at UNC-CH since 1970. He is a professor of surgery and also serves as associate director of the Clinical Research Unit at North Carolina Memorial Hospital.

A native of Brooklyn, N.Y., Fried received his M.D. from the University of Chicago in 1961. He spent nine years at the University of Chicago before joining the UNC-CH faculty.

Faculty notes

Betty Compton

Dr. Charles H. Hendricks, Robert A. Ross distinguished professor of obstetrics and gynecology, had his photo taken recently with Mother Teresa. They were on the same program at the Third Asia-Oceania Congress of Perinatology, held in Calcutta in December.

A faculty member at the School of Medicine is one of 17 outstanding American women to receive an award from the Wonder Woman Foundation this past fall.

Betty Baines Compton, a clinical assistant professor of pediatrics, was honored in the "women working creatively" category and received a $7,500 check in recognition of her achievements.

She was nominated by Patricia B. Bailey of the Federal Trade Commission for her work as a pioneer nurse practitioner in North Carolina and her creative efforts in extending health care to rural communities, particularly to adolescents.

Compton has been a member of the department of pediatrics since 1981. Prior to that she was an adjunct assistant professor in the department of social and administrative medicine and a clinical instructor at the School of Nursing.

Compton was one of seven students to graduate from the first class of family nurse practitioners at UNC-CH in 1971 and worked with the School of Medicine and the Orange-Chatham Comprehensive Health Services to establish a rural clinic in Prospect Hill.

In recent years, Compton has turned her attention to meeting the needs of adolescents and elderly patients in rural communities. She has been instrumental in the design and implementation of the Adolescents in Need Project, which is a joint effort of the School of Medicine and the Orange County school system.

This program helps adolescents prepare for and deal with the responsibilities of parenthood with particular emphasis on helping teenagers complete their education. Compton works with teens in clinics, at the local health department and in their homes.

The Wonder Woman Foundation is a non-profit, public organization founded in 1981 by DC Comics Inc. and its parent company Warner Communications Inc. This is the second year the foundation has awarded grants to outstanding American women. The grants are designed to assist and honor women 40 years old and over whose overall pattern of growth and achievement suggests further contributions to American society.

Dr. Arthur L. Finn, professor of medicine and physiology, has been awarded a Fulbright grant to conduct research in France.

Finn will be working at the College de France in Paris with Dr. Francois Morel, a

Faculty notes

noted scholar whose main interest is the function of kidney cells. Morel and Finn will collaborate in an effort to learn how kidney cells maintain their volume.

Finn is one of approximately 2,000 Americans to receive Fulbright scholarships this year. These scholarships are awarded to American graduate students, teachers and professors to study, teach, lecture and conduct research abroad, and to foreign nationals to do similar work in the United States. Individuals are selected on the basis of academic and professional qualifications plus their ability and willingness to share ideas and experiences with people from different cultures.

Four assistant professors and an instructor in the School of Medicine have been given junior faculty development awards for 1983-84.

Two faculty members received awards designated as R.J. Reynolds Industries awards. They were **Dr. Lee R. Berkowitz,** instructor in medicine; and **Dr. Myron S. Cohen,** assistant professor of medicine and microbiology and immunology.

Dr. Howard M. Fried, assistant professor of biochemistry and nutrition, received an IBM award.

The other two faculty members received Institutional Development Foundation awards. They were **Dr. Pauline K. Lund,** assistant professor of physiology; and **Dr. Rick B. Meeker,** assistant professor of neurology.

Funding for the $3,000 awards was derived from donations to the Institutional Development Foundation. Some awards are named for specific donors, including IBM, R.J. Reynolds Industries and the William Neal Reynolds Foundation. All are designed to help young faculty members complete research or scholarly efforts while still in non-tenured positions. Awards also were made to six others in the Division of Health Affairs and 14 faculty members in the Division of Academic Affairs.

In all 120 faculty members have received the awards since the program began in 1980.

The Mountain Area Health Education Center (MAHEC) and the Family Practice Residency Program in Asheville have announced that **Susan Mitchell Thrower,** MSW, has received the 1983 Citron Award in Family Medicine.

Thrower is a clinical assistant professor of family medicine, UNC-CH, director of behavioral medicine at MAHEC and an active family and marriage therapist.

The award, named in honor of Dr. David S. Citron (C.Med. '43), is presented annually to a family medicine faculty member of the five programs associated with the School of Medicine. The award recognizes outstanding accomplishments in teaching, research, humanitarian concerns and service to the department of family medicine.

Thrower was recognized for her many accomplishments, both locally and nationally, in integrating behavioral medicine and family studies into the teaching of family medicine. Under her direction, the behavioral medicine curriculum at the MAHEC Family Practice Residency has become a national model.

Pediatric researchers at the School of Medicine recently received funding to continue studies on brain regulation of cardio-respiratory function in newborn research animals. Dr. Walker Long, left, research assistant professor, and Dr. Edward Lawson, associate professor, hope to learn more about disorders ranging from sudden infant death to emphysema with the help of a $25,000 grant from the Physicians New Orleans Foundation.

Dr. Daniel L. Crocker, '70 (left), and Dr. Luther W. Kelly Jr., '46, consult during Medical Alumni Weekend 1983. This year's Medical Alumni Weekend will be April 6-7. A special program on International Health Care and UNC will be featured. The class of 1944 will enter the Manning-Berryhill Club and the classes of '49, '54, '59, '64, '69 and '74 will hold reunions. Crocker, president-elect of the Medical Alumni Association, and Kelly, chairman of the visiting committee, urge all medical alumni to plan to attend.

Study of runners expands understanding of enzyme

Dr. Silverman

Contrary to suggestions by some doctors, otherwise healthy athletes who run thousands of miles a year training for marathons are unlikely to damage their hearts by the exertion, according to a new medical study.

The study indicates that an enzyme that signals heart muscle damage when found in the blood serum of most people shows only the body's remarkable ability to rebuild skeletal muscle when detected in the blood of marathon runners.

A report on the research, based on analysis of calf muscle tissue samples taken from 25 Boston Marathon runners, appeared in the Nov. 25 issue of the Journal of the American Medical Association.

Authors of the report are Drs. Lawrence M. Silverman, assistant professor of pathology and biochemistry at the University of North Carolina at Chapel Hill; Arthur J. Siegel, medical director of Hahneman Hospital in Boston and a faculty member at Harvard University; and William J. Evans, an exercise physiologist at Tufts University, also in Boston.

In an interview, Silverman said physicians who suspect that patients have had heart attacks often order laboratory tests to detect the enzyme creatine kinase MB. Positive results are considered confirmation of a heart attack.

"But if you test the blood of the most highly trained marathon runners, you'll also find high levels of creatine kinase MB, and unless you had other clinical information, you might be convinced that they had suffered heart attacks," he said.

"Several years ago in Boston, a runner who had lost consciousness was actually admitted to a coronary care unit because the doctors relied heavily on this test. After being treated with fluids, he woke up and was perfectly all right."

One of the goals of the new study, he said, was to show that the enzyme observed in serum was coming from skeletal muscle regenerating itself after severe stress and not in part from damaged heart muscle, which some doctors had warned.

Biochemical analysis and microscope examination of the runner's calf muscle tissue and additional heart function studies confirmed the skeletal muscle origin of the enzyme.

"We've found that individuals who routinely run long distances create a biochemical pattern in their skeletal muscles that is totally different from more sedentary people," Silverman said.

"The pattern, which shows how the body adapts to continual training, depends solely on the amount of training done and is totally reversible once a person stops running for any length of time."

The scientist said he and his colleagues originally were trying to determine whether creatine kinase MB, which also is highly elevated in children with Duchenne muscular dystrophy, could be used to detect carriers of that crippling, fatal disease.

"We haven't been successful because we can't find creatine kinase MB in the amniotic fluid of pregnant women," he said. "We're currently checking sisters of boys with the disease because if a mother is a carrier, there is a good chance her daughters will be carriers also.

"If we can find an abnormality in a daughter's enzymes, that would indicate that both she and her mother are carriers and might want to have genetic counseling before getting pregnant."

The scientists began examining blood from marathon runners because their serum enzymes look identical to enzymes in serum drawn from children with muscular dystrophy, Silverman said. Apparently, the skeletal muscles of both groups initially respond to stress in the same way, although in the children new cells cannot replace the damaged ones.

Besides assuring some runners of the safety of extreme training, the scientist said the new report should show physicians that high creatine kinase MB levels do not always indicate a medical problem.

It also may prevent someone from being admitted to a coronary care unit unnecessarily and occupying a bed that another patient really needs.

"I think this is an excellent lesson for us in the medical field about the difference between 'average' and 'normal,' " he said. "Sometimes we have to redefine what we consider 'normal.' "

Alberto Salazar, winner of the 1982 Boston and New York marathons, was one of the world class runners who supplied blood serum for the continuing research, Silverman added. □

Calendar

Medical alumni activities

April		
6-7	Medical Alumni Weekend	Chapel Hill
11	Co-Founders	Chapel Hill

Continuing education

March		
7-10	Internal Medicine: 1984	Berryhill Hall
15-16	Cancer Research Symposium	UNC-CH
28-31	Clinical Epidemiology	Hotel Europa, Chapel Hill
April		
12	N.C. Neuro-Ophthalmology Review	UNC-CH
20-21	Carolina Ocutome Workshop	UNC-CH
25	Current Concepts in Otolaryngology for Primary Care Physicians	Berryhill Hall
27	Biochemistry Symposium	UNC-CH
May		
17-19	Floyd W. Denny Alumni Lecture Series	Hotel Europa, Chapel Hill
18-20	Pathokinesiology of Cerebral Palsy	UNC-CH
June		
1-2	Neurology for the Practicing Physician	UNC-CH

For more information about C.M.E. courses, contact the Office of Continuing Medical Education, 231 MacNider 202H, Chapel Hill, N.C. 27514 (919) 962-2118.

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A Tar Heel surgeon

Medical Alumni Bulletin

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Behind the Lines

The vitality of medical alumni presence in the life of our School of Medicine has been especially evident this spring.

The second annual Spicer-Breckenridge Lecture attracted a double overflow crowd. The audience filled the aisles and spilled across the hall to fill a second lecture room, where the lecture was shown on TV. Sir Peter Medawar, as expected, gave an outstanding talk on "The Limits of Science."

The Spicer-Breckenridge Memorial Lecture is an event established by medical alumni (the class of '39) in honor of medical alumni (two classmates killed in World War II) which has already become an integral element in the medical school's calendar.

As has the Lawrence Zollicoffer Memorial Lecture. This spring Dr. Vivian Pinn, chair of Pathology at Howard University, presented an interesting and enlightening history of blacks in medicine.

The Zollicoffer Lecture was established by the Student National Medical Association in 1981 to honor the fourth black alumnus of the medical school. The lecture continues to be fostered by both future and present medical alumni. It is interesting to note that the late Dr. Zollicoffer's ('62) son, Michael L. Zollicoffer, was recently elected president of the Whitehead Society.

And then the "big event" was in many ways even bigger than ever. Medical Alumni Weekend featured two scientific sessions, one put on entirely by the class of '64. Our alum-astronaut, Dr. Bill Thornton ('63), spoke at the annual alumni luncheon, and we had to set up extra tables.

The Medical Alumni Council and Visiting Committee held a joint meeting to discuss the report of the Medical Alumni Association Development Task Force. The task force has invested many hours in focusing the goals and objectives of the association. They have stated the goals as:

To help the UNC School of Medicine achieve its greatest potential and develop a strong Medical Alumni Association.

And they have outlined a comprehensive set of objectives and strategies to meet these goals.

Improved communications is the primary objective of the report, and most of the discussion in the combined meeting centered on this issue. Participants in the meeting included the chairs of the largest clinical departments. The fruitful interchange that began at that meeting is continuing. We will keep you up to date in future issues.

Photo highlights of Medical Alumni Weekend are included in this issue. Your next chance to join a lot of other medical alumni in Chapel Hill for similar activities will be Saturday, Nov. 3, 1984. That's the date of this year's Family Fall Weekend. Carolina plays Maryland in football that day.

We've talked in this column before about Tar Heel basketball players who've gone on to become physicians. The first to do so was Dr. Roy McKnight, C. Med. '18. He's the subject of a feature story which begins on the next page.

—JWB

CA

McKnight, '18, studied under the giants of medical science

"I performed my first operation on a rainy Sunday morning when I was 12 years old."

Dr. Roy B. McKnight (C. Med. '18), laughed at the memory of it and, with a smile on his face, finished the story.

"My parents were at church, and my two sisters and I were playing house. Well, we had this big rag doll—Mary Bell—and she got an attack of appendicitis, so I did the operation.

"I got the scissors and made the incision on the left side instead of the right! I even gave her stitches."

McKnight's early interest in medicine has remained with him his entire life. After completing his undergraduate work at UNC-CH, he entered the then two-year medical program.

"Medical school was very different in those days. There were 26 men in my class, now there are 160 men and women in a class." McKnight continues to revere his mentors on the small faculty of the school. On the walls of his apartment, just outside of Chapel Hill, hang the photographs of the four great leaders of the medical school during the first half of the 20th century: Dean Isaac Manning, professor of physiology and physiological chemistry; Dr. Charles Mangum, professor of anatomy and embryology; Dean William MacNider, professor of pharmacology and bacteriology and Dr. James Bullitt, professor of histology and pathology.

"These men could have taught in any medical school in the country, there is no doubt about that," he said.

After McKnight completed his two years of medical school at UNC-CH, he went on to get his M.D. at the University of Pennsylvania.

From 1922 to 1924, McKnight came back to UNC-CH and was an assistant professor in the department of pharmacology. In 1924, he was accepted at the Mayo Clinic in Rochester, Minn., as a fellow in surgery. He decided to go there and specialize in diseases of the thyroid gland, particularly goiter surgery. The faculty at UNC-CH wanted him to stay in Chapel Hill.

"One of my happiest recollections was when Dr. (Harry) Chase, who was president at the time, called me over to the office and says, 'Would you be inclined to change your mind? If you stay, you've got your associate professorship this year and full professorship next year,' " McKnight recalls Chase saying. "Needless to say, I was very flattered." But he turned down the offer.

Drs. Manning, Mangum, MacNider and Bullitt "could have taught in any medical school in the country. There is no dobt about that."

McKnight was at the Mayo Clinic until 1927. He worked among many surgeons, including Dr. John D. Pemberton, "a fine fellow and brilliant surgeon." At the clinic, he met Martha Leonard, who later became his wife. In 1927, he returned to Charlotte, where he practiced surgery for 35 years.

During his medical career, he has performed more than 2,000 thyroid operations and written approximately 25 articles that were published in various medical journals.

McKnight is a member of the American Association for the Study of Goiter (now the American Thyroid Society), a fellow of the American College of Surgeons and a diplomate of the American Board of Surgery. His dedication and commitment to his profession was acknowledged with the School of Medicine's Distinguished Service Award in 1955.

McKnight is also the only surviving member of UNC's first basketball team. He remembers when Carolina basketball was far from celebrated.

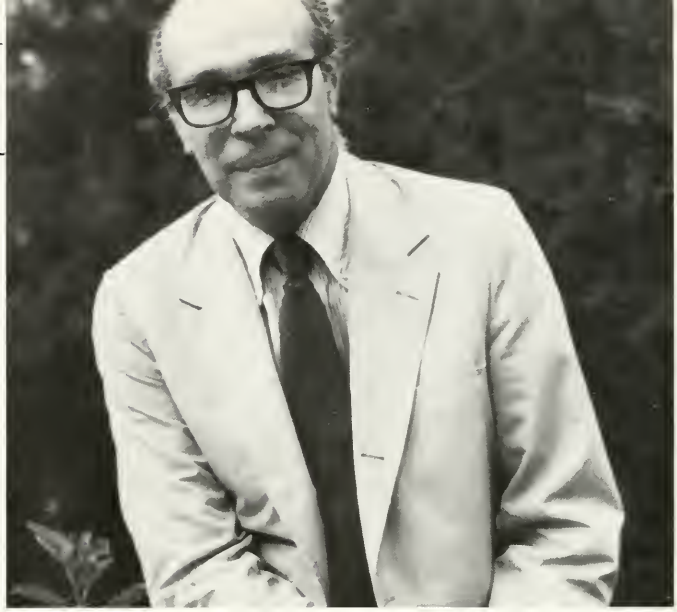
"We had a eight-member squad and no coach," he says. "We put up a pole in front of Bynum and practiced there about a week. Dr. Lawson, who was the director of the gymnasium at the time, wouldn't let us use it because he didn't want his pretty floors messed up."

McKnight suggested a visit to President Venable, "who was pleased at the idea of a basketball team at Carolina and wished we had one." Venable notified Lawson and he gave them permission to play in the gym.

Dressed in his letter sweater, McKnight occassionally goes to Carmichael Auditorium to see the Tar Heels play before a full house. He said the first team was fortunate to have 25 spectators in the gallery for a game.

McKnight sat back in his easy chair and gazed at the pictures on the wall—pictures of friends, fellow faculty members, respected professors and family. "I've tried to be a decent person all my life," he said. "I've had my regrets. By and large, I hope that when the pros and cons are weighed, the pros outweigh the cons. If you live your life with that in mind, I think you're liable to achieve it."

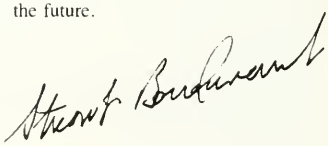
Dean's page



It is often helpful and sometimes even very pleasant to back away from the immediate and intense pressure of our current challenges, concerns and problems to gain the perspective of principle and purpose. It is not only in adjusting to the DRGs that we are immersed in questions of "how to" rather than questions of "why" or "what to." Perhaps, to paraphrase H. L. Menken, there is a law of human behavior to the effect that humanity will address its problems in a progressively superficial and short-term way unless some extraneous factor causes more profound or more long-term consideration. Our interests as physicians cover decades, our interests as a school cover centuries and our interests as a profession cover millennia. Thus, the understanding and decisions we draw on are rooted in timeless principle which gives them very great value and power.

In this issue of the Bulletin, two particular perspectives are presented which serve to enlighten fundamental and timeless considerations. First, Dr. Arthur Prange, acting chair of the department of psychiatry, discusses changes in psychiatry over the last 25 years. Like Dr. Prange, I believe that, from a historical perspective, we are witnessing a sharp increase in the rate of evolution of the field of psychiatry, which will move the specialty simultaneously further into the mainstream of clinical practice and into effective contribution to influencing behaviors in health and disease. If this be true, psychiatry of the future will be different from the psychiatry of past decades and, integral to the neurosciences generally, will be a more prominent part of all medical and health care education and practice in the future.

This issue of the Bulletin also recognizes the extraordinary and great contributions of Dr. Roy B. McKnight. Throughout a long and distinguished career, Dr. McKnight has been a source of great support for the University. He was a leader among those prominent and dedicated physicians of North Carolina who gave generously of their time and effort to persuade the leaders of the state that there should be a four-year medical school in Chapel Hill. Contemplation of Dr. McKnight's seminal and formative contributions to health care and to the School of Medicine over a period of nearly 70 years provides a perspective and a set of values which will doubtless illuminate the future.



We can't be content with halfway technology

By Arthur J. Prange Jr., M.D.

None of us can be certain just how it was, because we could not have been there for much of our adult lives. However it may have been, it stopped being that way, in North Carolina, about the summer of 1955. The best good fortune of my professional life is to have been a resident in psychiatry for a year before the introduction of psychotropic drugs.

By 1954, the State Hospital at Butner had already become a center for what was called psychosurgery. In one type of operation the patient was given an electric shock, and while he or she was still unconscious, a device resembling an ice pick was inserted under an eyelid and forced through the bony plate into the front of the brain, destroying connections to the highest centers of thought and abstraction. In addition to psychosurgery, we used straight jackets and forced immersions, and we tried to control mania by giving morphine. The trouble with drug treatment was that if you succeeded in getting a patient down off the walls, so to speak, he might also not breathe for half a minute or so. The drugs we used lacked a therapeutic margin; if you gave enough to attain a desired effect, then at just about the same dose, you were likely to encounter toxicity.

At the Dix Hospital I was one of the last physicians to operate an insulin treatment unit. Three times per week we gave patients huge doses of insulin, causing very low levels of blood sugar and thus coma. This treatment, though sometimes effective, obviously was dangerous. You could predict if a female patient were going to respond, some experts said. Women who were going to respond started to grow beards.

In the context I have described what was discovered was this: there was at least one chemical compound in the world that could calm mental patients without sedating them—chlorpromazine. It had a therapeutic margin. The drug, within wide limits and at least in the short run, was enormously safe. Its introduction led to what has been called the third psychiatric revolution. The first occurred when Pinel, in France, removed his patients' chains; the second, when Freud, in Austria, insisted that not all the mind was at our conscious command.

The story of chlorpromazine's discovery illustrates some points about research in mental illness, and indeed, about research in general. In the late 40s the French drug house of Rhone-Poulon sought drugs that would potentiate barbiturate anesthesia. Antihistamines showed promise, so a new class of antihistamines, the phenothiazines, was tested. One of these phenothiazines was chlorpromazine, and it worked quite well. If you first gave chlorpromazine, you would then need less barbiturate to produce a given level of anesthesia.

In the United States, at Smith-Kline and French, Dr. Leonard Cook was interested in the same problem. Hearing about the European work, he begged a sample from France. When he gave it to rats, he made a startling observation. The rats seemed oblivious to the environment. If he gave them mild electric shocks to their feet, they didn't seem to care, making no effort to avoid it. On the other hand, if he gave more electric current, they were able to escape quite normally. There was nothing wrong with their ability to move about; they simply chose not to, when given mild shock. Cook soon learned that in France two psychiatrists, Delay and Deniker, had made similar observations in people who had been given chlorpromazine before surgery. They seemed tranquil, and so the name tranquilizer was born. Some name had to be invented, because no other drug in the history of pharmacology had ever calmed patients without sedating them.

As the main discovery unfolded, an event occurred that remains a historical footnote. In 1953 a little man, with a turban and a carpet bag, from the foothills of the Himalaya Mountains, went from drug house to drug house in North America. In his carpet bag he had samples of the snake root plant, rauwolfia serpentina. He claimed that powdered snake root was good for high blood pressure, colic in babies, and madness.

There are now more patients in mental hospitals than ever before for whom ancillary treatments are appropriate. These treatments include all the talking therapies, the behavioral therapies, the social therapeis, the occupational therapies and the recreational therapies. Just because there are more patients that we can reach, there are more people we must reach.

Dr. Arthur J. Prange Jr. is Boshamer professor and acting chair of psychiatry. He adapted this article from a keynote address he presented to the Mental Health Association of North Carolina, Inc., Oct. 28, 1983, in Raleigh.

Throughout the drug industry, the word went out—buy him lunch and get rid of him. Of course, the little man was right. Reserpine, the purified derivative of snake root, remains a treatment for high blood pressure. And for a time, despite side effects, it was seen as competitive with chlorpromazine as a remedy for psychosis.

It was in 1955, then, that we entered a new era in the treatment of mental illness, the era of psychopharmacology. In the 28 years since then there have been many consequences, nearly all of them salutary. Of course, not all these changes were the results of psychotropic drugs. The mental health movement had been in place for many years, and after World War II it gained impetus. Furthermore, television and psychotropic drugs are about the same age. With TV, the outside world came inside the custodial walls.

Whatever all the ingredients of all the changes may have been, psychotropic drugs did some things quickly and obviously. They stopped insulin coma treatment; they reduced psychosurgery, perhaps by 99 percent. Public mental hospitals started to empty out. The emptying process continues, though in most places the rate of emptying has slowed. In the midst of all this, the late Dr. Nathan Kline coined a phrase: the windowpane index. He pointed out that the Rockland State Hospital in New York State paid $8,000 for window replacement in 1955, and only $2,000 in 1960.

Other things that psychotropic drugs did were neither quick nor obvious. These drugs gave mental health researchers something to do research about. The wish to do such research existed, and a national budget for research had come into being at the National Institute of Mental Health. Drugs focused this thrust. Money was the lever; drugs were the fulcrum. With a lever and a fulcrum it was possible to push away, an inch at a time, our ignorance about mental illness.

Finally, there was a subtle but enduring consequence. In a word, drugs brought psychiatry closer to the mainstream of medicine. They made our ideas about psychiatric illness, at least some psychiatric illnesses, more like our ideas about other illnesses. Drugs act on body chemicals, body chemicals are regulated by enzymes, enzymes are the product of genes, genes are the messengers of heredity. If a drug helps schizophrenics, then schizophrenia may stand closer to, say, diabetes than to infestation by demons. Basic scientists returned to the nervous system because they had a tool—drugs—and because they had a rationale—drug mechanism—that might reveal the mechanism of mental illness. Basic scientists returned to the nervous system, and we must hope that they never leave it.

How good are psychotropic drugs? In the present context, I would say quite good. We are no longer limited to chlorpromazine. We have a whole family of antipsychotic drugs. And we have antidepressant drugs, antianxiety drugs and an antimanic drug, lithium. Apart from their side effects, the trouble with these drugs is that they usually don't produce cure. They produce social remission. Most patients can leave the hospital but most patients also need a broad set of support services. Furthermore, many patients relapse, once again needing hospital care. Nevertheless, the overall effect of drugs has been centrifugal, away from mental hospitals. This trend has earned the name deinstitutionalization.

President Carter's mental health commission called for 10 percent of the federal mental health dollar to be spent on research. A committee appointed by Gov. Hunt in 1979, which I headed, called for two percent of our state mental health dollar to be spent on research. Currently, we spend less than 0.1 percent.

With this movement away from the public mental hospitals, what has been going on inside them? The short answer is: a lot. Even among the residual 20 percent of patients who stay behind or frequently return there is a distinct difference. If, before drugs, say, 90 percent of patients were emotionally inaccessible, there are now only about 10 percent. In absolute numbers, this means that there are now, as compared to the years before drugs, more accessible patients. There are now more patients in mental hospitals than ever before for whom ancillary treatments are appropriate. These treatments include all the talking therapies, the behavioral therapies, the social therapies, the occupational therapies and the recreational therapies. Just because there are more patients that we can reach there are more people that we must reach. This is expensive, and this expense is largely the consequence of psychotropic drugs. It is in this sense that psychotropic drugs are not as good as we should want.

Lewis Thomas, the biomedical essayist, writes of three levels of technology: non-technology, halfway technology and high technology. Non-technology includes the things we do when we stand by or lend support. Halfway technology consists of patching things up. Without knowing the cause of an illness we invent something useful to do about it. Thomas cites organ transplantation as a prime example. Technology of this kind is usually dramatic and always expensive. It multiplies the need for additional treatment facilities and for ancillary treatments. Dead center in the category of halfway technology I would put psychotropic drugs. By emptying hospitals psychotropic drugs have created the need for mental health clinics. I am not sure that North Carolina needs 41 such clinics, but we do need some.

Believing there is not much high technology in medicine, Thomas gives poliomyelitis vaccine as an example. High technology, based on understanding cause, is highly effective. It is always a bargain. As late as 1955, it cost thousands of dollars to have an attack of polio—many dimes indeed, marching side by side. Now it costs a few cents to prevent such an attack. You must swallow a sugar cube.

My major points, then, are these: for the treatment of mental patients we

Dr. Arthur J. Prange, Jr.

have a halfway technology. We must apply it because, for the present, we have nothing better. But it's expensive, because halfway technologies are inherently expensive. We must seek to reduce costs, while being fair to the whole spectrum of mental patients, the residual hospital patients as well as the "new" clinic patients.

Here are some challenges for all of us.

We must demand more mental health research, especially in the basic sciences. We must not do this on sentimental grounds. We must do it because it is the only way out of the trap of halfway technology. In mental health, will we ever have a counterpart to a polio vaccine? The question can be argued either way on philosophical grounds, but we will never know the answer unless we try. President Carter's mental health commission called for 10 percent of the federal mental health dollar to be spent on research. A committee appointed by Gov. Hunt in 1979, which I headed, called for 2 percent of our state mental health dollar to be spent on research. Currently we spend less than 0.1 percent.

It will no longer serve us, if it ever did, to say that research is solely a federal responsibility. In research, the federal dollar follows the state dollar. It would be wry, indeed, if through its Research Park, North Carolina spent money on synthetics and computers but not on the mental health of its people. Here is what Gov. Hunt wrote about research, in Science magazine, Feb. 5, 1982:

> "State government in partnership with academia has a clear responsibility in resolving the crisis in research and technical innovation."

Here is another challenge: do not squander the benefits of the third psychiatric revolution. The leader of the green revolution, Dr. Norman Borlaug, now regards its profits as squandered. The time that it bought has lapsed, and the ratio of empty bellies to available calories is worse than before. In mental health we have adopted an expensive halfway technology—drugs—and we have extended and made more expensive its already expensive consequence, a network of 41 outpatient clinics. We should now invest the money that is needed and the time that was purchased with earlier investments to find a better technology. Otherwise, we may fill the clinics, and then the halfway houses, and then the nursing homes, and even reinvent the custodial hospital. The pressure of population is relentless, and we cannot accommodate it without new knowledge, newly applied.

We must not allow the past to repeat itself, though it has a great tendency to do so. Specifically, we must not misuse the fruits of psychotropic drugs. Doctors can misuse these drugs by employing them simply to keep order. This happens sometimes, though less often than you might think, considering the intrinsic merits of good order. Public interest groups misuse the fruits of psychotropic drugs if they advocate any action that might return us to a bimodal attitude toward the mentally ill. The mental patients who must rely on public care today fall naturally into two groups, those who continue to need mental hospitals and those who do not. What must be avoided now is further impoverishment of the "ins" to benefit the "outs." If we don't avoid it, we shall have come full circle, back to warehousing—where we were in 1954.

Extracts

North Carolina Memorial Hospital has received a maximum three-year accreditation from the Joint Commission on Accreditation of Hospitals.

The three-member site survey team which visited the hospital last fall gave N.C. Memorial the most favorable report card in the hospital's history.

Executive Director Eric B. Munson said none of the 21 deficiencies, the lowest number ever cited at N.C. Memorial, was serious enough for the commission to attach any conditions to its accreditation. Work has begun on correcting the minor deficiencies cited by the JCAH.

The N.C. Area Health Education Centers program has received $135,000 from the federal government for special projects aimed at meeting health care needs and linking libraries and health professionals through a statewide computer network.

The latest grant from the Department of Health and Human Services marks the 11th year the North Carolina program has received funds from the federal government and brings the total of federal support to $11.9 million.

Dr. Eugene S. Mayer, director of the AHEC program, explained that the special funds will allow AHEC to continue to evolve so it can be more responsive to new health care needs of communities throughout North Carolina.

Teleconferencing has come to the School of Medicine. The department of radiology recently used the new technology to transmit both videotaped and live segments to a meeting of the American College of Radiology in Denver.

The special hook-up was designed to illustrate the viability of remote communication for radiologists as well as to discuss the elements of an integrated radiology communications system, said Dr. Bradley Brenton, instructor in radiology.

An integrated system uses multiple computers to control the storage, retrieval, enhancement and high speed transmission of medical information.

Two unique strains of mice at the School of Medicine are helping researchers track down the cause of a genetically transmitted kidney disease that kills infants during their first year of life.

Infantile polycystic kidney disease affects between one in 6,000 and one in 14,000 babies. Infants born with the disease have rapid kidney failure, which is often fatal unless they are put on dialysis or have a kidney transplant. About 75 percent of the infants die within the first 24 hours of life; 93 percent within the first year.

Scientists have been hampered in their efforts to understand this human kidney disease because of the lack of a suitable animal model, a problem the mouse colony at Chapel Hill may help solve.

Researchers involved in the studies include Dr. James Mandell (HS '70), assistant professor of surgery and pediatrics; Dr. William E. Koch, professor of anatomy; Dr. Charles Jeannette (M.D. '74), assistant professor of pathology; Dr. Cora-Jean Edgell, research assistant professor; and Dr. James Fry, research fellow in surgery, all at UNC-CH, and Eleanor McFarland in Bar Harbour. They say the recently developed strain of mice may even help researchers uncover the molecular basis of the disease.

After having served as a model for treating autistic children in other lands, the TEACCH program at UNC-CH has provided the impetus for an effort a little closer to home.

Division TEACCH, which stands for "Treatment and Education of Autistic and Related Communication Handicapped Children," is part of the department of psychiatry. Since its inception in 1971, the program has served as a model for others in Denmark, Belgium, Venezuela and Japan.

Now the list also includes Dallas, Texas. Dr. Eric Schopler, director of TEACCH and a professor of psychology and Dr. Gary Mesibov, associate director of the division, have been helping Dallas school administrators set up a program modeled on TEACCH.

Studies of the electrical activity in the brains of 100 children indicate that lead has affected the youngsters' central nervous systems at levels far lower than those previously known and considered safe.

Electroencephalograph recordings of the children's brain waves showed increasingly pronounced changes as concentrations of lead measured in their blood increased from six to 55 micrograms per deciliter.

The current environmental lead standard, established by the Centers for Disease Control in 1979 as the maximum safe level that children can absorb, is 30 micrograms of lead per deciliter of blood.

Drs. Stephen Schroeder, clinical psychologist at the Biological Sciences Research Center at the University of North Carolina at Chapel Hill, David Otto and Vernon Benignus of the EPA and Paul Mushak, associate professor of pathology at UNC-CH conducted the research.

A simple, new procedure for diagnosing respiratory problems in infants and children now is available at Memorial Hospital.

The procedure is flexible bronchoscopy, and a pioneer in its use in children recently joined the faculty of the School of Medicine.

Dr. Robert E. Wood, associate professor of pediatrics, has used the procedure in more than 900 children less than 10 years old to diagnose problems ranging from suspected foreign bodies to birth defects.

Wood explained that until very recently, only rigid bronchoscopes were used in pediatric patients because flexible instruments were not small enough for children's airways. Flexible bronchoscopes for use in adults have been available since 1969.

Extracts

The first set of quadruplets born at N.C. Memorial Hospital generated a lot of interest both inside and outside the medical center. The quads were born April 13 to Cheryl and Dan Garner of Durham. All four are doing well and are at home with their three brothers. A press conference was held a few hours after the quads were born. Those speaking included (above, from left): Garner; Dr. Mary Hammond, chief of the division of reproductive endocrinology and fertility; and Dr. Ernest Kraybill, chief of the division of neonatology. Below, Dr. John Seeds, who delivered the babies, and Garner talk with Ben Estes of the Raleigh News and Observer.

Class notes

Manning-Berryhill Club

Joseph M. Shachtman, C. Med '33, of Beverly Hills, Calif. writes, "I had the pleasure of being at UNC for my 50th Reunion and met only one of my former classmates from medical school. The growth of the medical school has been tremendous. In June my wife and I had the pleasure of taking our two granddaughters, one from Laguna and one from Fort Collins, Colo., on a trip to Athens, Odessa, Yalta, Istanbul, Debronvnick and Venice. In July we spent a week with our son who reached the ripe old age of 40 and has a very active ophthalmological practice with three associates in Fort Collins. I am still fully active in practice and remaining as chief of cardiology and director of education at Midway Hospital and attending physician at Cedars-Sinai Medical Center."

Roberto Levitt, C. Med '34, of Savannah has retired to a warmer climate. He's very happy to be relieved of the current hassle that medical practice has become. "Am deep in southeast Georgia archeology, old bones do not call at night," Levitt says.

Julien H. Meyer Sr., C. Med '35, of Roanoke, Va., attended the District IV American College of Obstetricians and Gynecologists meeting in London in September. He also visited Venice and Rome for a District II meeting. "Dr. Charles Hendricks was visible and audible," Meyer reports.

40s

Robert Lackey, C. Med. '46, of Charlotte continues to practice radiology primarily at Charlotte Memorial Hospital. He has enjoyed active participation in the Mecklenburg County Medical Society and N.C. State Chapter of American College of Radiology and says, "This is giving way to more time at Pawleys Island."

Emily Tufts, C. Med. '48, has reached the state in life where she's a member of a board of directors. This year she will complete three years on the board of directors of Parents Anonymous. In 1983, she joined the board of directors of Albertina Kerr, a resource for handicapped and disadvantaged children in Portland. She continues at the Oregon Health Science University Outpatient, the Rosenfield Child Abuse Center and the Oregon Poison Control and Drug Information Center. All these activities make it hard for her to find time for hiking, fishing, skiing and watercolor painting.

50s

A. V. Piccirillo, M.D. '55, of Wallingford, Conn. is still practicing in pediatrics and allergy. He has a university appointment at Yale School of Medicine, where he is associate clinical professor of pediatrics. He's a diplomate of the American Board of Allergy and Immunology, a fellow of the American Academy Allergy and Immunology and a fellow of the American College of Allergists. He and Jeanne have four children.

60s

Donn A. Wells, M.D. '61, needs a board certified family practitioner for associate in a continually growing and exciting practice in Ft. Lauderdale. In 1981, he added allergy as a subspecialty to his family medicine practice. In August 1983, Wells participated in a family medical tour of the Soviet Union. "*Excellent tour* and insight into USSR medical care system and *quality* of care," he says.

Wayne B. Venters, M.D. '64, is still in practice in Jacksonville, N.C.

James W. Rose, M.D. '64, remains in practice in internal medicine at Dean Medical Center in Madison, Wis. Rose is also involved in administrative duties as chief of staff at St. Mary's Hospital Medical Center. Recently he completed an instructor course in advanced cardiac life support. He still enjoys gardening, tree farming, music, cross country skiing and his family. Sarah is a "professional" volunteer, Susan is an English major at St. Olaf College and David is a junior at West High School.

Michael L. Nieland, HS '66, and his wife Nancy are both dermatologists, and have lived in Pittsburgh since 1972. They practice dermatology as well as dermatopathology. They have five children, two still in diapers and would love to hear from some of his old friends. Nieland sends regards to all.

Terry D. Golden, M.D. '68, was elected president of the Georgia Affiliate of the American Diabetes Association in July '83.

Joseph W. Griffin Jr., M.D. '68, is an associate professor in the department of medicine of the Medical College of Georgia in Augusta, his subspecialty is gastroenterology. Griffin served as president of the Faculty Senate of the School of Medicine, 1983-84.

Barbara Kahdy Dorsey, M.S. '69, and her 10-year-old daughter, Mettrie, are still living in Atlanta where she has a private practice for physical therapy. Dorsey attended a high school class reunion this past summer which she saw three UNC-PT classmates, who are all still practicing. Her other endeavors have included snow skiing and traveling in her spare time.

70s

Philip May, M.D. '70, is in private practice of internal medicine and endocrinology in Hope, N.J. May was an associate professor of medicine at the New Jersey Medical School in Newark, and a staff physician at the V.A. Medical Center in East Orange until January 1983.

George M. Oliver Jr., M.D. '70, is still in solo practice (ob-gyn) in Morehead City. He was recently elected chief of staff at Carteret General Hospital.

Elliot Puritz, M.D. '72, is chief of dermatology at Smithtown General Hospital and St. Johns Hospital in Smithtown, N.Y. He is actively involved in teaching at the medical school at Stony Brook, and is on the executive board of the N.Y. State Dermatology Society and past president of the medical staff at the local hospital.

John R. Lurain, M.D. '72, of Oak Park, Ill., was promoted to associate professor of obstetrics

Class notes

and gynecology at Northwestern University Medical School. A daughter, Kathryn Anne, was born in November 1983.

Phillip Smith, M.S. '73, is now employed at the Microelectronics Center of North Carolina, developing software tools to be used in the computer-aided design of integrated circuits.

Patrick B. Mullen, M.D. '74, has a son now a year old. He and family are staying busy in Greenville, S.C.

David Tayloe, M.D. '74, of Goldsboro Pediatrics, P.A., was named 1984 "Boss of the Year" by the Goldsboro Charter Chapter of The American Business Women's Association at the organization's annual boss night banquet.

Kenneth H. Wilson, M.D. '74, is assistant professor of medicine in infectious disease at the University of Michigan. His wife Joanne is on the faculty as well. They have two children, Nora, 4, and Courtney, 2, both doing well. He would enjoy hearing from any classmates in the area.

Richard F. Fox, M.D. '75, is chief of nephrology at Letterman Army Medical Center, San Francisco, and is looking for a practice position in North Carolina. He and wife Betsy has two children, Rebecca and Aaron.

Joseph B. Phillips III, M.D. '75, of Birmingham was appointed in July 1982 as associate director of the Regional Neonatal Intensive Care Unit. In August 1982, he was named to the editorial board of Neonatology Letter. Philips was guest editor of the forthcoming issue of Clinics in Perinatology titled "Neonatal Pulmonary Hypertension."

Ernest F. Krug III, M.D. '75, is now chief of the exceptional family member department at the Frankfurt Army Regional Medical Center. Krug explains that this is the army's referral center for developmental evaluation in Europe and is a very challenging position. His wife, Sarah, and the children are enjoying Germany very much.

Nancy E. Chaney, M.D. '76, married Hale R. Spiegelberg of Seattle in October 1983. She will continue to commute between Seattle and Baton Rouge, as she continues as chief of neonatalogy, Woman's Hospital. Chaney is the first vice president of the newly formed Louisiana Perinatal Association.

Renee Visco-Howard, M.D. '76, is in practice of general pediatrics at Wyman Park Hospital in Baltimore. She and her husband have two sons, Colin and Brendan.

S. Ray Mitchell, M.D. '76, of Shadyside, Md., was appointed assistant professor of internal medicine and clinical assistant professor of pediatrics at the Uniformed University of Health Sciences. Mitchell is still in the Air Force teaching residents in the flexible program and family practice at Malcolm Grow Medical Center at Andrews Air Force Base. He says he's doing about three-fourths adult and pediatric rheumatology and the remainder in general internal medicine. He will enter a rheumatology fellowship at Georgetown University in July.

Stephanie Jaeger, M.D. '76, is now working as a family practitioner at the Anchorage Neighborhood Health Center. She previously worked at the Alaska Native Medical Center for two years with the Indian Health Service. She says, "I love Alaska and after being here for six years, I plan to stay."

Catherine M. Radovich, M.D. '77, of Ft. Defiance, Ariz. has recently returned to work with the Indian Health Service on the Navajo reservation in Northern Arizona.

L. Lyndon Key Jr., M.D. '77, presented two papers in Japan this past fall at the VIII International Conference on Calcium Regulating Hormones. His wife, **Jan Dixon Key, M.D., '80,** accompanied him. Both are currently at the Children's Hospital in Boston.

John P. Manzella, M.D. '77, and his wife are living in York, Pa., with their four children. Manzella passed the infectious diseases boards in June 1980 and was elected FACP in April 1983.

Wayne D. Fogle, M.D. '77, of Knoxville has accepted a pediatric position at East Tennessee Children's Hospital.

Susan T. Snider, M.D. '78, is enjoying family practice in Spruce Pine. The Sniders are building a house ("will be glad to get out of the trailer after three years"). She has been named chair of Southeast Regional Executive Committee of American Friends Service Committee, and she will be the regional representative to the AFSC National Board also. "Family all doing well," she reports.

Gregory H. Tuttle, M.D. '78, and his wife Diane visited the Soviet Union in August 1983. They traveled with a group of family physicians, touring health care facilities in five republics of the U.S.S.R., stopping in the cities of Tbilisi, Yerevan, Baku, Kiev and Moscow. Especially interesting to the Tuttles were Red Square and the Kremlin, fourth century monasteries and a view of the Turkey's Mt. Ararat. Tuttle says they had an educational visit, but were glad to be back on American soil.

John Solic, M.D. '79, of State College, Pa., is currently practicing pulmonary allergy with Internal Medicine Associates. Solic is the director of respiratory therapy at Centre Community Hospital. He has three children: John, 4, Katie, 2, and Tim, 1, and is still rooting for the Tar Heels.

Larry Hooper, M.D. '79, is still in the deserts of West Texas (Dell City) running two freestand PHS clinics and donating one day a week to the County Hospital in El Paso which is 110 miles away. Hooper has learned to fly and bought an old Mooney to help in getting around for the clinics. He has been raising a foster child for a year and a half, "though still not married," Hooper says.

Judy Jordan-Thomas, M.D. '79, has been living in Nuremberg, West Germany since August 1982 and is loving her second home. "The land, her people, the food and beer will be warm memories when I return home in July 1984 to complete a dermatology residency at University of Virginia."

Their journey to the Land of Odds led them down the red brick road through Berry patch Hall, the hospital and numerous airports, as Dorothy and her friends sought happiness "Somewhere after Match Day." The familiar story was retold by the medical class of '84 as "The Wizard of Odds." Shown on the facing page are (from left) Scarecrow (Joe Payne), Dodo (Landon Wellford), Dorothy (Cathy Wall), Cowardly Lion (Joel Lilly) and Tin Man (Steve Citron). Above, the cast members prepare to "Keep on down the Road" of residency.

80s

Wells Edmundson, M.D. '80, of Raleigh, has joined a three-man group in internal medicine. He has one child, Erin Elizabeth.

Stephen C. Peiper, M.D. '81, of Memphis is an assistant professor of pathology at St. Jude Children's Research Hospital.

Tommy Newton, M.D. '81, of Salem, Va. was selected as chief resident in the Roanoke Memorial Hospital Family Medicine Residency. He plans to enter private practice in eastern North Carolina after completing his residency in June. Newton also was elected president of the 100-member RMH housestaff organization. He sends best regards to the "Clint Eastwood Admiration Society."

Class notes

Alix J. Lovitz, M.D. '81, of Los Angeles was selected by the UCLA Neuropsychiatric Institute for an American Psychiatric Association Falk Fellowship for 1983-1985.

Wallace Kernodle, M.D. '81, was married to Laura Dale Franklin of Asheville in June 1983. Kernodle is a senior medicine resident at N.C. Memorial.

Douglas Kiel, M.D. '81, of East Thetford, Vt., will start a fellowship in general internal medicine at Boston University Hospital this July.

Edward T. Plyler, M.D. '81, of Columbia, S.C., married Elizabeth Robeson Giles in November. He will finish his family practice residency in June and will be working in Columbia.

R. Wayne Kreeger, M.D. '81, of Rochester is nearing completion of his internal medicine residency at the Mayo Clinic and will be staying on as a cardiology fellow thru 1987. "It's not uncommon for people to ski to the hospitals here," writes Kreeger, who was snowbound in the hospital for five days during a 1981 blizzard. His wife, the former Betsy Eleanor Burge of Winston-Salem, is working on a master's degree in nursing at the University of Minnesota.

David Gutterman, M.D. '82, is currently chief resident in internal medicine at the University of Iowa and is planning a career in academic medicine in cardiology.

Jonathan E. Morris, M.D. '82, is a second-year resident in psychiatry at N.C. Memorial. Morris was married to Joyce MacKinnon, assistant professor of medical allied health professions, this past November.

Debbie Taylor, M.D. '83, of Columbus is working hard in her internship year at Ohio State University. Taylor says, "I'm learning a lot and am enjoying myself. (At least, as much as one can enjoy being an intern.) I miss Chapel Hill, but I did get to visit in October of 1983. It was much too short a visit—as most vacations are."

Dianne Zwicke, M.D. '83, was a guest speaker and panel discussant at Wisconsin State meeting on "Physiologic Aspects of Aging." Zwicke was also program coordinator and speaker in a week-long conference on "Care of the Critically Ill or Injured." She's in the Wood County Campus Symphony Orchestra—first chair, oboe section. She's in her second year in internal medicine residency at the Marshfield Clinic.

Mary Forehand, M.D. '83, is a resident in family medicine at North Carolina Baptist Hospital in Winston-Salem, but she's still a true blue and a dedicated Tar Heel fan.

Robert A. Willis, M.D. '83, is in his first year in a otolaryngology and head and neck surgery program at the University of Cincinnati. His wife Susie is a part-time pharmacist at the medical center there.

John Bartlett, M.D. '83, has embarked on his psychiatry residency at UNC-CH. Bartlett says along for the "voyage" are his wife Judy and daughter Emily Christina, born this past September.

Deaths

George M. Cooper Jr., C. Med. '43, Raleigh
Thomas A. Farmer Jr., M.D. '57, Pikesville, Md.
Robert A. Herring, C. Med. '03, High Point
S. Malone Parham Jr., M.D. '73, Kinston
Emmett G. Rand, C. Med. '24, Carlisle, Pa.
Edward T. Viser, C. Med. '51, Ahoskie

Dr. Farmer

Construction is beginning on a new Critical Care Center at North Carolina Memorial Hospital. The facility will consolidate the hospital's adult critical care units and provide much needed additional space for critical care teaching and patient care. The building also will permit the final phase of the hospital's clinical laboratory consolidation. It also will house new medicine and surgery units and various clinical support services. The new building, which will adjoin the east side of the Patient Support Tower, is scheduled to open in 1986.

Irvin was 'wonderful colleague'

Dr. J. Logan Irvin, 70, Kenan professor and former chair of the department of biochemistry and nutrition, died Saturday, March 31, at his home in Chapel Hill.

Dr. Irvin also was former chairman of the Orange County Planning Board and the Orange County Board of Adjustments and vice president of the Triangle Land Conservancy.

A faculty member at UNC-CH since 1950, when the School of Medicine was beginning its move to four-year status, Dr. Irvin chaired the department of biochemistry and nutrition for more than two decades (1957-78). During that time, the department grew from about five faculty members to 21 full-time and 22 joint appointments. He also was to a great extent responsible for the corresponding growth in the department's graduate program.

"I am deeply saddened by the death of Dr. Logan Irvin," said University Chancellor Christopher C. Fordham III ('49). "He was a wonderful colleague and an outstanding scientist and teacher.

"He brought great distinction and devotion to his university, his students and his colleagues. We will all miss him."

Dr. Stuart Bondurant, dean of the School of Medicine, called Dr. Irvin "an outstanding scientist, a consummate teacher and a moving force in the School of Medicine, the University and the community."

"He shaped the lives of many by his gentle and devoted spirit," Bondurant said

"J. Logan Irvin, a gentle man, a scholar and researcher and, above all else, an excellent teacher, will be sorely missed by his colleagues in the department of biochemistry," said Dr. Mary Ellen Jones, Kenan professor and department chair

"Under his leadership, training of graduate students for the M.S. and Ph.D. degrees in biochemistry increased from a yearly number of less than 10 to about 50."

Dr. G.P. Mamre, dean of the Graduate School at UNC-CH, said, "Kenan Professor Logan Irvin came to the University in 1950 and for three decades was one of the important leaders in the development of the medical school as an outstanding institution.

"He was a dedicated scholar with an unusual range of knowledge of biochemistry and related sciences, a trusted adviser to many faculty members, a demanding but popular teacher, a good colleague and a working environmentalist. He will be missed by those who knew him well and, unknowingly, by many others who profit from his many contributions."

Dr. Irvin had continued to be active in research and teaching until his death. His influence had been recognized by the students themselves, who selected him for the Basic Science Teaching Award in 1976. He had received the Central Carolina Bank Award for Excellence in Teaching in 1978.

When the department moved to the Faculty Laboratory Office Building, its new library was named for him.

His high standards of research resulted in recognition as well, including a Guggenheim Fellowship.

"The biochemistry of chromatins has recently attracted many leading scientists; Logan Irvin was an early 'explorer' in this field," Jones said.

Dr. Irvin was a former chairman of the N.C. Heart Association and was active in the American Cancer Society and the Society for Experimental Biology. He had held numerous committee appointments in major scientific and professional organizations.

He is survived by his wife, Dr. Elinor Moore Irvin; and by a brother, S. Hawkins Irvin of Durham.

In lieu of flowers, memorial contributions may be made to the Dr. J. Logan Irvin Memorial Fund in the Department of Biochemistry and Nutrition in the School of Medicine.

Medical Alumni Weekend 1984

There were plenty of smiles during Medical Alumni Weekend, including those of Drs. Bill Thornton (left) and Paul Briggers, class of '63 mates. Thornton received one of six Distinguished Service Awards presented this year. The other awards went to Dr. David A. Young, '29; Dr. Thomas B. Dameron Jr.; The Lineberger Foundation and its president J. Harold Lineberger; Dr. David Tayloe Sr.; and Dr. T. Franklin Williams. Dr. Colin Thomas Jr. received the Distinguished Faculty Award.

Between them, emeriti professors Dr. Paul Bunce (left) and William Richardson have taught countless physicians now in practice.

Medical Alumni Association members chose Dr. Luther Kelly, '46, as president-elect for 1984-85. Dr. Dan Crocker, '70, was installed as president, and Dr. Noel McDevitt, '64, was elected vice president. New councilors elected to three-year terms were Drs. Frank Sabiston Jr., '64; Luther L. Anthony Jr., '51; Howard Holderness Jr., '65; G. Irwin Richardson, '55; W. Grimes Byerly Jr. '50; William B. Deal, '63; E. Carwile LeRoy, '60; and George D. Penick, '44. Here Kelly talks with Dr. Vince Arey, '44 (right).

Medical Alumni Weekend 1984

Dr. William Rabil, '44, addresses the Manning-Berryhill Club. Rabil and his classmates were inducted into the organization upon the 40th anniversary of their graduation.

The experience of returning to Chapel Hill for Medical Alumni Weekend can be described as "out of this world" by many alumni including Dr. Bill Thornton, who truly knows the meaning of the expression. Medical Alumni Weekend 1985 is already being planned for you. The dates will be March 15-16, 1985. Mark your calendar now.

Class of '44 colleagues Drs. Francis King and Margaret Swanton

Dr. John S. Rhodes, '27, Betty Neilson and Lou Wells (wife of Dr. Ed Wells, '44) enjoy the pre-banquet social hour.

Medical Alumni Weekend 1984

New members of the Manning-Berryhill Club who addressed the group included Drs. Margaret Swanton (left) and Vince Arey (right), both class of '44.

Drs. Bill Weinel and Neal Partrick were among those back for their 30th anniversary reunion.

The "Moondogs" performed at the Manning-Berryhill dinner. Members of the group, all from the medical center, are (from left) Polly Johnson, pediatrics clinic nurse coordinator; and Dr. Phil Sloan, Addison Talbot, and Dr. Bob Gwyther of the family medicine faculty. The Moondogs were especially pleased to honor the class of '44, they noted, because two of the musicians were born in 1944.

A call to responsibility

As alumni of this School of Medicine, we all share in a great heritage. We have been educated in one of the finest medical schools in the nation and world. Due, at least in part, to the dedicated support of committed alumni in years past, our school has prospered and grown in its contributions in teaching, research and clinical practice. As we follow in the footsteps of our predecessors, we have the right to be proud. But we share the responsibility to foster and promote the practice of medicine, the medical school and the health of the citizens of North Carolina, as well as those out of state with whom our alumni have contact. This responsibility was established by our predecessors and expressed in the Constitution and By-Laws of the Medical Alumni Association.

I am confident that our current alumni have no less energy, wisdom and foresight than those who preceded us. I am certain that among us are many dedicated to helping the UNC-CH School of Medicine achieve its greatest potential and to developing a stronger Medical Alumni Association. Because of your attributes and interest and because these changing times will provide new opportunities, I am delighted to serve as your president. My immediate predecessors, Dr. Marvin McCall and Dr. Richard Boyd have responded to your call for the formation of specific goals and objectives for the Medical Alumni Association. Such should render more substantial support to the School of Medicine in one or more specific areas. To this end, I also am committed. This will require increased communication between the school and its alumni as relates to patient care, continuing education and the dissemination of educational information. Already a Development Task Force is at work on these issues. Its initial report was discussed and approved by the Medical Alumni Council and the Visiting Committee during Medical Alumni Weekend. This task force needs and encourages the input and support of all alumni. I hope this task force will expand further alumni support of our school and, in turn, the school will be able to strenghthen its programs in teaching, research and service through which it supports practicing alumni and other physicians in our state. I encourage your involvement and appreciate your support to the school and to me.

On a personal but equally important note, I wish for each of you both success and happiness in your daily work and in your family life. Certainly our profession provides ample and rewarding occupation. We should also set aside time for calm and quiet with our families and ourselves. Thomas Jefferson wrote, "It is neither wealth nor splendor, but tranquility and occupation, which gives happiness."

Daniel L. Crocker, M.D. '70
President
Medical Alumni Association

Bryan receives UNC's highest award

Dr. James A. Bryan II, one of the medical center's most popular teachers and highly respected clinicians, was chosen by the University of North Carolina Board of Governors as one of two recipients of the 1984 O. Max Gardner Award.

The award is presented annually to a faculty member or members of the 16-campus UNC system for contributions to "the welfare of the human race." The only statewide honor given by the board, the award was established in 1948 by the late Oliver Max Gardner, former governor of North Carolina.

Bryan is professor of medicine and social and administrative medicine and associate professor of family medicine. In the award citation, the Board of Governors praised Bryan as an exemplary member of the medical faculty: "Nationally recognized by his peers as one of the best internists in America, winner of more teaching awards than any other member of the faculty, a founder of the hospice movement in

North Carolina, he has helped to shape the humane practice of modern medicine."

In accepting the award, Bryan said, "This award from my University humbles me. In giving it, the University recognizes my school and my hospital, for without them I would have no capacity to function as I have."

Bryan thanked his colleagues for their examples of excellence and caring, his family for their love and support and his patients for the trust they've placed in him. "Every day I am humbled by the strength that they show and honored that they let me care for them."

Bryan, 51, joined the UNC medical faculty in 1964. His "Introduction to Medicine" course for first-year students is one of the most popular in the medical school curriculum, and he has won several major awards for excellence in teaching. The numerous honors he has received include the Chapel Hill Jaycees Distinguished Service Award in 1978.

In addition to his responsibilities as teacher and physician at the medical center, Bryan is an attending physician at Carol Woods Retirement Center and Nursing Home and at Hillhaven Convalescent Center. He also is medical director of Triangle Hospice, Inc.

Chancellor Christopher C. Fordham III, ('49) praised Bryan and expressed his pleasure that the Board of Governors chose to honor his former medical school colleague. "His commitment to the well-being of his patients and his students is legendary, and his selection for the award says something poignant and profound about the University."

Dr. Stuart Bondurant, dean of the School of Medicine, also hailed Bryan's selection as a Gardner award recipient.

"Dr. Bryan has made direct, personal contributions to the shaping of the humane practice of modern medicine throughout the state and the world."

Describing Bryan as a "renaissance physician," Bondurant praised him for promoting "the reincorporation of humanitarianism and humane caring into the very best of scientific medicine."

Bondurant noted that Bryan is known internationally for his influence on medical education and patient care. And he cited Bryan's powerful and lasting effect on medical care in North Carolina.

"By the sheer force of his example, he has conditioned an entire medical school and generations of students who, in turn, reflect his dedication to compassion and competence."

The other recipient of this year's O. Max Gardner Award is N.C. State University chemist Dr. Vivian Thomas Stannett. The Board of Governors cited Stannett's contributions in making the Research Triangle area the world center for textile chemistry. □

Dr. Mary Ellen Jones elected to National Academy of Sciences

Dr. Mary Ellen Jones, Kenan professor and chair of biochemistry and nutrition, has been elected to the National Academy of Sciences.

Jones, a distinguished biochemist, is a specialist in metabolism and regulation. She was one of 60 new members who were elected at the academy's 121st annual meeting this spring in Washington, D.C.

Academy membership is considered to be one of the highest honors that can be accorded an American scientist or engineer and is recognition of distinguished and continuing achievements in original research.

Jones was the only new member from a North Carolina institution.

Eleven living and six deceased members of the UNC-CH faculty have been honored with NAS membership.

"Professor Jones is an outstanding scientist and an outstanding member of our great faculty," University Chancellor Christopher C. Fordham III ('49) said on hearing of the honor. "I am delighted with her election into the NAS."

Jones is the first woman at UNC-CH to be named a Kenan professor and the first to chair a department in the School of Medicine.

She also is a member of the National Academy of Sciences' Institute of Medicine, the American Association for the Advancement of Science and the New York Academy of Science.

She serves on the editorial board of the Journal of Biological Chemistry and Cancer Research. She is a member of the board of scientific counselors of the National Heart, Lung and Blood Institute and a councilor of the American Society of Biological Chemists.

She first joined the UNC-CH faculty in 1966 and held appointments in the departments of biochemistry and zoology. She accepted an appointment to the University of Southern California in 1971 but returned to Chapel Hill in 1978 as professor and chair of the department of biochemistry and nutrition.

She was named Kenan professor in 1980.

"Dr. Mary Ellen Jones is a distinguished scientist of international renown, based upon many important contributions to our understanding of how enzymes and metabolic processes work in living beings," said Dr. Stuart Bondurant, dean of the School of Medicine.

"She is also a great leader of our

local and national scientific communities as an outstanding teacher and the effective chair of a great department of biochemistry."

A native of Illinois, Jones earned her undergraduate degree from the University of Chicago and her Ph.D. in biochemistry from Yale University.

After earning her doctorate, she held fellowships at the Atomic Energy Commission and American Cancer Society biochemical research laboratories at Massachusetts General Hospital in Boston, Mass. In 1955 she and fellow researchers Leonard Spector and Fritz Lipmann of Rockefeller University discovered carbamyl phosphate, a compound essential to all living cells.

The late Dr. J. Logan Irvin, Jones' predecessor as department chairman in biochemistry and nutrition, said of that research, "This brilliant work has had a profound influence on biochemistry and led eventually to the discovery of allosteric enzyme systems, as well as providing the basis for an understanding of the biosynthesis of pyrimidine nucleotides."

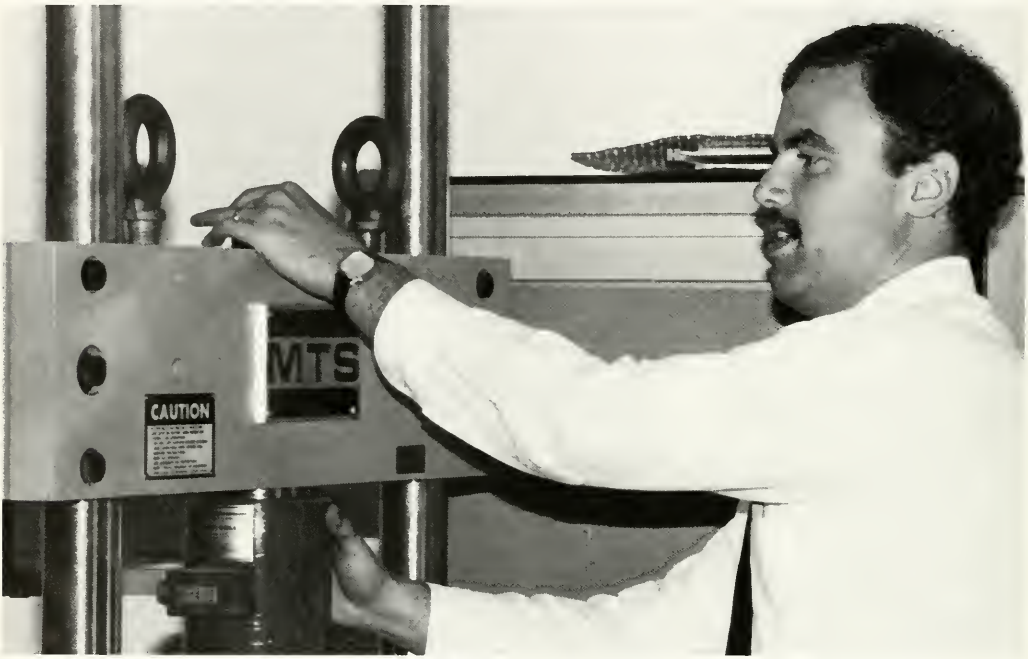
The National Academy of Sciences is a private organization of scientists and engineers dedicated to the furtherance of science and its use for the general welfare. It was established in 1863 by a congressional act of incorporation, signed by Abraham Lincoln, that calls on the academy to act as an official adviser to the federal government, upon request, in any matter of science or technology.

The members elected recently bring total NAS membership to almost 1,500.

Other members from UNC-CH are: Dr. Raj C. Bose, Kenan professor emeritus of statistics; Dr. Kenneth M. Brinkhous, Alumni Distinguished professor emeritus of pathology; Dr. John N. Couch, Kenan professor emeritus of botany; Dr. Ernest L. Eliel, William R. Kenan Jr. professor of chemistry; Dr. Carl W. Gottschalk, Kenan professor of medicine; Dr. J. Ross Macdonald, William R. Kenan Jr. professor of physics; Dr. Paul C. Mangelsdorf, retired lecturer in botany; Dr. Lindsay S. Olive, University Distinguished professor emeritus of botany, and Dr. Robert G. Parr, William R. Kenan Jr. professor of chemistry.

Deceased faculty members who were NAS members are: Dr. Harold Hotelling, Kenan professor of statistics; Dr. W. deBierne MacNider, Kenan research professor of pharmacology and former dean of the School of Medicine; Dr. Charles N. Reilley, Kenan professor of chemistry; Dr. Oscar K. Rice, Kenan professor of chemistry; Dr. Louis Leon Thurstone, research professor of psychology and first director of the psychometric laboratory; and Dr. H. V. P. Wilson, Kenan professor of zoology.

Research enriches students' experience



Robert Wainer, M.D. '84, co-winner of this year's Michiko Kuno Award for outstanding student research

Talent, hard work and determination are characteristics that all medical students share and that many employ to attain high levels of achievement. Such is the case with Suzanne L. Kirby of Charlotte and Robert A. Wainer Jr. of Greensboro, co-winners of this year's Michiko Kuno Award for outstanding student research.

Kirby has just completed her second year and Wainer is a 1984 graduate of the School of Medicine.

Kirby, 1982 graduate on North Carolina State University, did her research on "Stem Cell Surface Fibronectin."

"I was looking to see if the fibronectin was one of the things that mediates the interaction between stem cells and bone marrow," she said. Her faculty sponsor was Dr. Stuart A. Bentley, associate professor of pathology.

Looking at her findings from a broad, long-range perspective, she said the information could be important if say, leukemia cells lacked surface fibronectin. "I really don't have enough information to justify this yet."

She plans to specialize in laboratory hematology research and will take next year off to work full-time on the fibronectin research.

Kirby participated in the Students Teaching Early Prevention (STEP) program in the Chapel Hill-Carrboro Schools and has worked as a schedule coordinator for the Student Health Action Committee (SHAC) clinic.

Wainer's research tested different fixation devices for broken hips.

"The reason we did this is because there were varying reports about which device worked best," he said of his work with Dr. Paul Wright.

They looked at three commonly used pins for broken hips: Richard's compression screw, the ender rod and the zickel nail.

"We were studying a specific type of hip fracture—subtrochanteric fracture—which is very difficult to repair." He found that Richard's compression screw was the most effective fixation device for this type of fracture.

Wainer hopes to have his findings published in a medical journal and said he may be involved with more research in the future.

He is beginning an orthopaedics residency at Bowman Gray School of Medicine in Winston Salem.

Wainer and Kirby were among 15 students who gave presentations during Student Research Day this year. Student Research Day is sponsored by the Whitehead Society and the Office of Student Research and Academic Enrichment. □

Calendar

Medical alumni activities

September		
15	Medical Parents Day	Berryhill Hall
29	Co-Founders	UNC-CH Art Center
November		
3	Alumni Fall Weekend	Chapel Hill
5	Alumni reception during Southern Medical Association meeting	New Orleans

Continuing education

July		
30-Aug. 3	Myrtle Beach Workshop	Landmark, Myrtle Beach
August		
30	DRGs in Medicine and Pharmacy	Chapel Hill
September		
7-9	Practical Dermatology	Grove Park Inn, Asheville
17-19	Pediatrics Flexible Broncoscopy	Chapel Hill
20-22	Pediatrics Flexible Broncoscopy	Chapel Hill
October		
1-3	International Valve Symposium	Bermuda
26-27	Medico-Legal Seminar	UNC-CH
26-27	Psychopharmacology for the Practicing Physician	UNC-CH
November		
1-2	Current Topics in Urology	Carolina Inn, Chapel Hill

For more information about C.M.E. courses, contact the Office of Continuing Medical Education, 231 MacNider 202H, Chapel Hill, N.C. 27514 (919) 962-2118.

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medical alumni BULLETIN

New research findings

On the cover

Medical alumna Dr. Janne Cannon (Ph. D. '78) is a researcher in the UNC-CH center for the study of sexually transmitted diseases, one of only five such specialized centers in the nation. For the story, see p. 9.

medical alumni BULLETIN

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Behind the lines

Last issue's article on Dr. Roy McKnight ('18) included memories with which others fortunate enough to study under "the Big Four" identified. To McKnight's assertion that Drs. Manning, Mangum, MacNider and Bullitt "could have taught in any medical school in the country," one alumnus adds, "and that school would have been the better by their having been there."

That appraisal was offered by a distinguished physician who himself is one of the more highly respected members of the profession today, Dr. Lenox D. Baker ('30).

The Big Four may be seen as the charter members of a pantheon that continues to grow. The accomplishments of our physicians and medical scientists are recognized and acclaimed by their peers as well as those they serve.

In his column this issue, Dean Bondurant discusses some of the most recent honors various faculty members have received. Additional news about faculty can be found on page 8.

Teaching, of course, is especially valued. In this issue, we feature the recipients of two of the medical school's top teaching awards. The medical class of 1984 gave The Professor Award to Dr. Alan Cross, who also was selected to give this year's commencement address. The edited text of that talk is presented on pages 5-7.

The Medical Alumni Association this year presented its Distinguished Faculty Award to Dr. Colin Thomas. A story about him begins on the next page.

—JWB

He teaches surgery's intellectual CHAL-LENGE

Thomas sees surgery as an exercise in logic and judgment more than an expression of good manual dexterity. Most medical students see his specialty in a 'new light' by the time they leave the surgical service.

By Monte Basgall

The Siamese twins were fused together at the pelvis, their legs splayed toward their sides and their heads pointed in opposing directions.

No surgeon had successfully separated infants joined in that rare position — called ischiopagus tetrapus — until 1965, when Dr. Colin G. Thomas Jr. did.

Thomas, the recipient of this year's Distinguished Faculty Award, remembers that operation, not as a surgical groundbreaker but rather as a case of the right patients at the right time.

Monte Basgall is a staff writer for the Raleigh News and Observer, in which this article originally appeared, July 17, 1983.

"It's rare to have two individuals sufficiently intact to be able to do it," he said. He explained that both infants had separate functioning bladders and also had adequate blood vessel connections to the bowel that they shared.

Other factors that aided him, Thomas added, were a sufficient amount of spare tissue to close the twin abdominal incisions and the availability of then-new X-ray tools that allowed him to go into surgery knowing these facts.

Thomas, who came to UNC in 1952 from his native Iowa, sees surgery as an exercise in logic and judgment more than an expression of good manual dexterity.

"The individual that is regarded as a very good surgeon, he's not in that category simply because he operates more rapidly or ties a knot more rapidly," Thomas said in an interview.

"It's the decisions that he makes as he goes along and the ability to recognize the goals of the operation and what's important and what is unimportant in trying to achieve those goals."

A teacher as well as a surgeon, Thomas thinks that medical students often come into surgery wards with a "bias" against his specialty.

"I think the bias is that surgeons are relatively non-thinking and merely carry out certain technical procedures whereas there's (actually) as much intellectual challenge in surgery as there is in any other phase of medicine," he said.

Surgery also often offers "immediate rewards ...of a patient getting well and going back to his usual activities," he noted. "That is not true for all disciplines in medicine."

He reports that most medical students see his specialty in a "new light" by the time they leave the surgical service.

Thomas, the son of an Iowa surgeon and general practitioner, always wanted to be a surgeon himself. "I'm sure that my father as a physician and as an individual who did some surgery influenced that decision, but there never seemed to be any doubt in my mind as to what I was going to do," he said.

Born in Iowa City and raised in the smaller Iowa town of Monticello, Thomas studied at the University of Chicago from his freshman year of college through medical school.

He began his internship and residency in 1943 at the University of Iowa Hospital. But he had to interrupt his Iowa hospital training from 1945 to 1947 to serve with the U.S. Army Medical Corps in stateside hospitals.

He unsuccessfully sought permission to join United Nations units working with Chiang Kaishek in China.

Ultimately, the military provided him with "unusual opportunities" in hand and neurological surgery, he recalled.

He also met his wife, a social worker, during Army duty in Missouri.

After a final three years in residency he joined the University of Iowa faculty in 1950 as an associate in surgery. In 1951, he became an assistant professor.

But 1951 was also the year that Dr. Nathan A. Womack, a native North Carolinian, left the chairmanship of the University of Iowa surgery department to become the first surgery department chairman at UNC-CH.

Womack recruited Thomas as an assistant surgery professor at the fledgling medical school in Chapel Hill.

"It was a new school and the new faculty would have an opportunity to develop their own ideas with respect to the teaching of students and house staff," Thomas recalled. "In a sense, we would be the senior faculty from the very beginning."

Thomas admits he had some doubts about the wisdom of his decision during the summer of 1952, his first in the South.

"We moved from a house (in Iowa) to an apartment (in Chapel Hill)," he said. "We had two children and my wife was pregnant. It was very hot. There was no air conditioning.

" ...Since that time, we've become acclimated and, actually, I think now we much prefer this area to Iowa."

Thomas, whose office is in a building named in part for Womack, became surgery department chairman himself in 1966. He stepped down from that post in February.

During his years in Chapel Hill, he has developed a reputation for his teaching and for his research.

Asked to name his best research achievement, he cited the discovery that some thyroid tumors depend on certain pituitary gland hormones for their initiation and growth.

That doesn't change the role of surgery in cutting away tumorous tissue from a cancerous thyroid gland, he acknowledged. But in attempting to prevent the reappearance of the disease, suppressing the pituitary's output of hormones could benefit some patients.

In 1955, Thomas tested his longstanding suspicions by suppressing pituitary hormone output in patients whose cancers had spread to other parts of their bodies — a process known as metastasis.

"It just so happened that the first patient I treated had a metastasis that actually regressed," he recalled.

While teaching and research is a full-time agenda, he hopes that shedding his administrative duties will allow him to take more vacation and weekend time off than was possible in the past.

"Last year we took up windsurfing," he said. "It reminds me a lot of jogging in the sense that it's hard work. You don't see many guys windsurfing with a smile on their face."

Thomas and his wife Shirley have a cabin on Kerr Lake, where they also keep a sailboat. Other pet pastimes include bridge and tennis.

In addition, Thomas has another hobby that is especially down to earth: mushroom collecting. "I look out in my front yard after it rains and if there is something there, I collect it," he said. "Or sometimes I go out in a pasture and look."

Shirley Thomas' spare time has been taken up with volunteer work at N.C. Memorial, and at other places since their children grew up and left home.

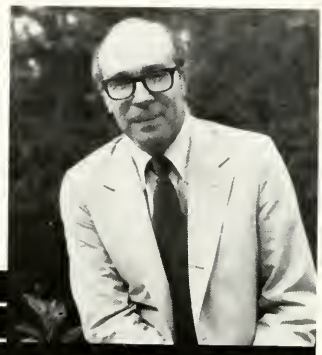
Their oldest daughter, Karen, lives in Washington and is vice president of a company that makes television documentaries. Their second daughter, Barbara, is a nurse in Seattle, and is working on a master's degree.

They also have two sons. Jim is a sports writer in Greenville, S.C. John recently received a master of business administration degree from Tulane University and has joined an electronics firm in Dallas.

Thomas has served on the American Thyroid Association's board of directors and has been chairman of the American College of Surgeons nominating committee.

In 1962, medical school students selected him as Professor of the Year. And last year, the University of Chicago gave him its Distinguished Service Award for alumni.

Dean's page



During the past few months, members of our faculty and staff have been recognized by an extraordinary array of distinguished awards.

The highest award given by the University to a member of its faculty is the O. Max Gardner Award which is given as a result of a personal bequest by former Gov. O. Max Gardner Jr. to the member of the faculty of the University who has done most in the previous year for the welfare of mankind. One of the two awards this year in the entire University system went to Dr. James Bryan II, professor of medicine. This award is especially meaningful to the School of Medicine because Jim Bryan so well represents the dedicated teacher-clinician-scholar.

The citation for Jim read in part " 'Dr. Bryan is my doctor.' What assurance rests in the hearts of young and old, rich and poor, those filled with anxiety and fear, when JAMES ALEXANDER BRYAN II is their physician!"

The Thomas Jefferson Award is the highest award given by the faculty of the University of North Carolina at Chapel Hill to members of the faculty whose academic contributions are most reflective of the principles and standards of Thomas Jefferson. This year Dr. Janet Fischer, professor of medicine, and Dr. Newton Fischer, professor of surgery and former head of the division of otolaryngology, were the richly deserving co-recipients of the Thomas Jefferson Award. For decades, Janet and Newton have been uncompromising champions of the highest standards of clinical and academic enterprise. Their enthusiasm, commitment and competence have certainly been keystones of the academic programs of our school.

Dr. Mary Ellen Jones, chair, department of biochemistry and nutrition, was elected to membership in the National Academy of Science. This great honor recognizes Dr. Jones's national and international eminence as a working scientist and scientific leader.

Dr. Sue Estroff, assistant professor of social and administrative medicine, is the recipient of the 1984 Margaret Mead Award of the American Anthropological Association and the Society for Applied Anthropology. Dr. Estroff was recognized for her outstanding contribution to the field of applied anthropology.

The highest award which can be given to a member of the staff of UNC-Chapel Hill is the C. Knox Massey Award. Lucia Hudson, who has managed the dean's office and many of the affairs of the School of Medicine for four deans, is a 1984 winner of this award. I know that I reflect the deep and lasting appreciation of all four of us who have been fortunate enough to work with Lucia and to be the beneficiaries of her thoughtful and graceful contributions to the school.

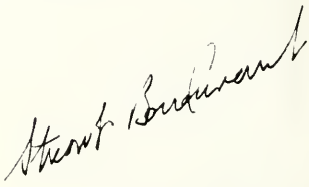
Dr. John Graham, '40, professor of pathology, received two great honors: He received an honorary Doctor of Science degree from his alma mater, Davidson College, and, by choice of the medical students, a Student Research Society has been formed and named the John B. Graham Student Research Society. At the alumni banquet for the graduating class, I announced the formation of the John. B. Graham Student Research Society and John himself handed out the membership certificates to the first group of students elected to membership.

Dr. Morris Lipton, professor of psychiatry and director of the Biological Sciences Research Center, received the Distinguished Alumnus Award from his alma mater, the University of Chicago.

Dr. Harold Roberts, '55, professor of medicine and head of the division of hematology, received the "Achievement in Hemostasis Award" of the International Congress on Thrombosis and Hemostasis.

Finally, the most recent award was given by the UNC-CH Black Alumni Association to the administrator whose contributions have meant most to the black alumni of the University. The recipient was Dr. Marion Phillips, who well deserves recognition of his outstanding work over the past decade in recruiting and supporting scores of outstanding black medical students.

Each of the recipients of these awards has reason to be immensely proud and all of us who are privileged to know them and work with them can share in that pride and respect as it reflects on them and on our school. Congratulations to each!



By Alan W. Cross, M.D.

Complexities need to be balanced by

PERSONAL CARE

It takes great skill on the part of the physician to be able to explain the disease process in appropriate, non-technical terms so that patients truly understand all that medicine knows about their disease. By sharing our knowledge effectively, we empower patients to take greater responsibility for their own care and be less dependent upon us.

The practice of medicine has changed a great deal during the 14 years since I graduated from medical school. Medical care used to be far more straightforward.

I am reminded of the two kids who were sharing a room in the hospital. The first kid turned to the other and inquired, "Hey, are you medical or are you surgical?" The other responded, "What do you mean medical or surgical?" "Well, were you sick when you got here or did they make you sick after you got here?"

As medicine has become more complex, we often hear the complaint that physicians have become more impersonal, more distant from the patient. This distance, which the patient so often perceives, has several components.

Those of us who work in teaching hospitals are often physically distant from the communities from which our patients come. As a result, we are unfamiliar with where they live, work and play.

But even for the physician who lives in the same town as his or her patient, there may be a social distance which separates the doctor. Patients come from all walks of life with vastly different occupations, incomes and circumstances. Many physicians know little about the lifestyle of the blue collar worker, the farmer or the unwed mother.

Cultural differences may contribute further to the distance between the doctor and patient. The patient's ethnic background has a profound effect on personal values, customs and priorities. The physician's lack of familiarity with the cultural, social and community context of the patient's life reduces the doctor's ability to understand the patient's needs in time of illness.

When people become ill they often define their health problem in terms of the social, cultural and community context of their lives. The chest pain which we see as angina may have a very different meaning to the patient. It may represent the threat of losing a job or a diminished role as husband, father and head of household or a fear of becoming a dependent invalid. An understanding of coronary blood flow is inadequate to explain what this patient is suffering from.

Another component of the distance between doctor and patient may be the experience of the illness itself. Many chronic diseases have a profound influence on the patient's life. Although we as physicians are well versed in the pathophysiology and treatment of these diseases, we are generally unfamiliar with what it means to live with these conditions day-to-day. The burden of that experience is likewise an important part of our patient's life.

To make our medical care more personal, we must seek ways to reduce the distance between ourselves and the patient. We must attempt to bridge the gaps that separate us from the patient and hamper our ability to understand their needs. There are many ways to bridge these gaps. The simplest and most straightforward is to learn from the patient. Through our history taking, we need to elicit information about their life.

This family and social history, however, should go beyond the

Dr. Alan Cross is assistant professor of social and administrative medicine and pediatrics. The recipient of the 1984 Professor Award, Cross presented these remarks in his commencement address May 13, 1984.

simple data of occupation, marital status and number of children. To begin to understand the patient we need a rich description. We are seeking a full portrait, not just a pen and ink drawing. We don't just want to know that our patient is a farmer, we want to know what it's like to be a farmer. We don't just want to know that they have diabetes, but we want to know just how their diabetes affects their daily life.

Eliciting that kind of rich description from a patient is not always easy. It requires more than knowing how to ask an open-ended question. It requires establishing a good rapport and a warm relationship. One must take time and listen carefully. Even then, articulate patients sometimes have difficulty accurately describing what their life is like.

One valuable way to reduce the distance between doctor and patient is to visit the patient in their own home. A few minutes in someone's house provides a wealth of information you would never get in the clinic.

In pediatrics, we send each resident to the home of a handicapped child to care for that child in the evening while the parents go out for a break. We have found that this gives the residents a very real sense of what it's like to care for such a child. They are humbled and gain a lot of respect for the parents. We don't have time for house calls for every patient, but a few such experiences remind us how inadequate our medical history is in painting that full portrait of the patient.

There is one additional approach in understanding our patients which is worthy of mentioning. There are numerous literary works which describe people in situations similar to those we face with our patients. Although the characters in these stories will never be under our care as patients, reading such literature provides another approach to better understanding the human condition in health and disease. There are, for example, several novels set in the South which provide excellent descriptions of Southern life.

Let me turn now to yet another source of distance between the doctor and the patient. The extensive body of medical information that one acquires over the years of medical education sets you apart from your patients. The complex concepts and scientific jargon constitute something akin to a

Cross also often speaks to various community groups. Here, he shares a lighter moment with participants in a Goodlife seminar for parents of adolescents held earlier this year. Goodlife is the medical center's community health enhancement program.

foreign language to the patient. The patient comes to you because you have this information. Most patients also want you to share that knowledge with them to narrow the gap between you.

It takes great skill on the part of the physician to be able to explain the disease process in appropriate, non-technical terms so that patients truly understand all that medicine knows about their disease. By sharing our knowledge effectively, we empower patients to take greater responsibility for their own care and be less dependent upon us.

It is important to recognize that the sharing of information is a two-way street. We are the repository of the scientific information that the patient needs. The patient is the repository of the cultural, social and life experience information which we need in formulating our advice for diagnosis and treatment. Both bodies of information are equally important. The success of the encounter is determined by how well each party informs the other.

One final component of the distance between doctor and patient is emotional distance. Most physicians would agree that reducing the social, cultural and information gaps between doctor and patient will improve the physician's ability to understand and care for that patient. However, many physicians would maintain that some degree of emotional distance is necessary to maintain objectivity.

I will not dispute the value of maintaining some emotional distance for the sake of objectivity. I would only ask you to be honest with yourself as you consider the purpose of this emotional distance. Are you maintaining this distance for the patient's benefit or is this in reality a way of protecting yourself from an involvement that may be emotionally draining?

I would encourage you to experiment with how much emotional detachment is truly needed. To my surprise, when I have allowed myself to become more emotionally involved with a patient than I thought I should be, I have generally found that the patient seemed to benefit and my decisions were rarely clouded.

Reducing the distance between the doctor and patient requires an attitude and skills that are often described as the art of medicine. We must begin with an attitude of respect for the patient as a person, as an equal, regardless of the circumstances of their life. We must then apply our relationship skills to learn from the patient.

For most of us this is not an easy task. It requires a lifetime effort to control our prejudices and refine our skills. We need to try new approaches to avoid becoming stagnated in our effort to understand our fellow man or woman better.

We should avoid isolating ourselves within the hospital or office. Rather, we should venture out to where our patients live and work so that we can appreciate the full context of their lives. As we strive to achieve this goal we need to recognize that our understanding will always be incomplete as no one ever fully understands another person.

Medicine is an applied science. Its effectiveness is determined not only by the quality of the scientific information but as much by our ability to apply that information effectively to the specific needs of each individual patient. Understanding those needs represents a constant challenge.

Faculty notes

Dr. Gustke

Dr. Hendricks

Dr. Lytt I. Gardner, former member of the department of biochemistry and nutrition faculty, received the William Hammond Award and Citation for Distinguished Service at this year's annual meeting of the New York State Medical Society.

Gardner, professor of pediatrics at the State University of New York Upstate Medical Center in Syracuse, served on the UNC-CH faculty in 1949-50. In 1980, he received a medal from the Catholic University of Chile for contributions in pediatrics.

Dr. Susan Gustke, clinical associate professor of medicine and psychiatry, received a 1983 Executive Cabinet Award for Excellence in Management from the N.C. Department of Human Services.

Gustke, one of eight recipients of the award statewide, won the honor for her work as director of the Division of Medical, Surgical and Geriatric Services at Dorothea Dix Hospital.

The board of directors of Chicago Lying-In Hospital of the University of Chicago Medical Center presented the Joseph Bolivar DeLee Humanitarian Award to **Dr. Charles H. Hendricks,** Robert A. Ross distinguished professor and chair emeritus of obstetrics and gynecology.

The award was presented in April at a black-tie dinner honoring Hendricks.

Dr. Tom S. Miya, dean of the School of Pharmacy and chairman of the Curriculum in Toxicology, received the Society of Toxicology's highest award in March.

At its annual meeting in Atlanta, the society presented Miya with its Merit Award for outstanding contributions to the development of toxicology.

He has chaired the toxicology curriculum in the School of Medicine since 1980.

Dr. Howard A. Schneider, former director of the UNC-CH Institute of Nutrition, has been named a fellow of the American Institute of Nutrition.

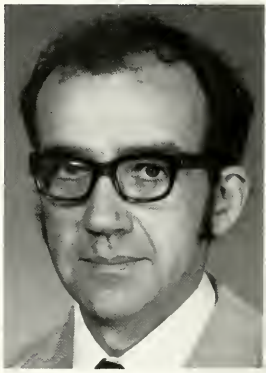
Schneider was a professor of biochemistry and nutrition in the School of Medicine from 1970 until his retirement in 1978.

An all-day program on calcium and bone metabolism held in June at the School of Medicine honored **Dr. Roy V. Talmage,** professor of surgery and pharmacology.

Former students and colleagues of Talmage discussed bone function, analysis, formation and related topics.

Talmage, a specialist in calcium and bone metabolism, retired from full-time teaching this summer. Throughout his career, he has studied the physiology of the parathyroid hormone and the biochemistry of bone. His work in these fields resulted in several original contributions to bone physiology and allied subjects.

Dr. Wolfenden



Dr. Richard V. Wolfenden, professor of biochemistry and nutrition, has been named an alumni distinguished professor.

Wolfenden has been at UNC-CH since 1970, having previously taught at Princeton University. His research interests include the study of enzyme action and drug design and the influence of water on the chemistry of organisms.

Born in Oxford, England, Wolfenden holds bachelor's degrees from Princeton and Oxford universities and a Ph.D. from Rockefeller Institute.

Another piece to puzzle of GONORRHEA

Researchers at the School of Medicine have found another piece to the public health puzzle known as gonorrhea.

They have manufactured a monoclonal antibody or probe which appears to be able to tell the difference between *Neisseria gonorrhoeae* bacteria which cause infections and other similar bacteria in the same species.

"There appears to be some antigen on the surface of the disease-causing bacterium that isn't present on the ones that don't cause infections," explained Dr. Janne Cannon (Ph.D. '78), assistant professor of microbiology and immunology.

Cannon and her colleagues have manufactured a monoclonal antibody in their lab which recognizes only one particular antigen. They published the results of their work in the March issue of the journal Infection and Immunity.

Co-authors of the paper are William J. Black and Patricia W. Stewart, School of Medicine, and Irving Nachamkin, UNC-CH School of Public Health.

Cannon said the antigen is a protein which appears to be different from other proteins already known to exist on the surface of the outer membrane of the *Neisseria gonorrhoeae* bacterium.

She said researchers in Chapel Hill are anxious to find out why this particular protein seems to be required for a bacterium to cause infection. "The bacteria are all so different, but here's a thing they have in common. It probably has something to do with the fact that they're pathogenic.

"This work could theoretically some day contribute to a vaccine for gonorrhea," Cannon said. She cautioned, though, that the research is in its very early stages and there is still much to learn about the structure and genetics of the protein being studied.

There are more than two million cases of gonorrhea in the United States each year. The disease remains a puzzle, Cannon explained, because although scientists know what causes the disease and how to treat it, gonorrhea is still not completely under control.

She said that gonorrhea is different from many other bacterial infections because people get it over and over again. There also are strains of the disease which are resistant to antibiotics.

Gonorrhea also causes more complicated infections which can lead to sterility in women, Cannon said.

The work at Chapel Hill is being funded by a five-year $1.6 million grant from the National Institute of Allergy and Infectious Diseases. The University of North Carolina at Chapel Hill is one of the nation's five specialized research centers for the study of sexually transmitted diseases. The other centers are located at Johns Hopkins, Emory and Indiana universities and the University of Washington in Seattle.

Dr. Cannon discussed her research with a group of students taking a medical writing course sponsored jointly by the Schools of Medicine and Journalism.

Wise lectures, as usual, real

PEARLS

When in March the sweet showers fall
And basketball addicts get nervous-and-all,
When the third-year students are anxious about exams
Wondering if ever they will get to be Big Rams,
When also the god of matching with his sweet breath
Exhales an air in every bar and heath
Upon the fourth-year students, and the young sun
His half-course in the sign of the Ram has run...
Then students long to hear great pearls,
And professors long to put on a show
In merry ways and impart what they know.

(From "The Po Log of a Carrboro Tale," by Dr. William B. Blythe, '51—with apologies to Geoffrey Chaucer)

So members of the fourth-year class select "some 10 and seven great learned professors" and give them three minutes each to "throw out wise words" called "Pearls of Wisdom."

Even as the annual pearls lectures become more lyrical, their verities become more eternal. No fewer than seven of this year's speakers presented their pearls in verse. And the "regular" pearls lecturers echoed themes from pearls days past.

Unlike last year, Dr. Floyd A. Fried, Rhodes distinguished professor of urology, finished his verse within the three-minute limit. Dr. John Parker, professor of medicine, employed such vivid imagery in his lyrical pearl, that accompanying slides really weren't necessary.

Pearls are "a little bit serious, a little bit funny, but most of all true," as Dr. Valerie Mandell (HS '78), assistant professor of radiology, said in introducing her presentation of "What Is Success?" by Harry Emerson Fosdick. Mandell selected slides of the medical center, its people and its surroundings to localize Emerson's work which concludes, "...to know that even one life has breathed easier because you have lived."

Dr. James F. Donahue, associate professor of medicine, offered the soon-to-be residents tips on teaching: "It was decreed by superior powers/in a moment of wisdom sidereal/that those that teach in ivory towers/have heads of the same materials."

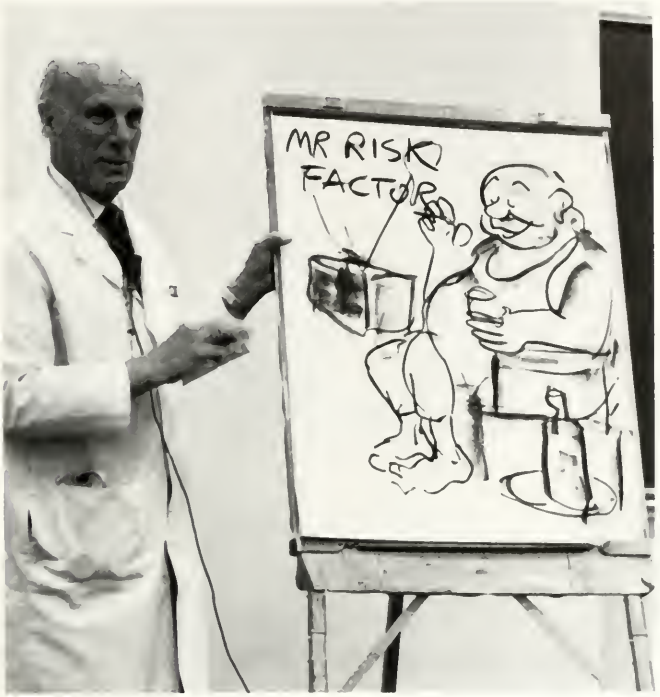
Dr. James A. Bryan II, professor of medicine, reminded the audience that when the elderly are hospitalized, "they're ill not because they're old, but because they have some disease."

"Listen to the patient," Dr. Alan W. Cross urged. "Fully half of what you need to know cannot be found in books anywhere."

Dr. Janet J. Fischer, Sarah Graham Kenan professor of medicine, also spoke on the importance of listening to the patient, confident that "it's the best pearl because it's the same as Dr. Alan Cross." Fischer presented poignant remarks about patients' wants and needs, quoted directly from a terminally ill mother in her 30s.

Cross, assistant professor of social and administrative medicine and pediatrics, summed it up: "The knowledge from the books will serve you poorly if you've been unable to assess/what the patient wants and needs most clearly, for this is how we measure our success."

There are, however, a few books that can help, according to Dr. Watson A. Bowes Jr., Upjohn distinguished professor of obstetrics and gynecology. "While there have been volumes written about therapy, there is only a rare good work written with which to teach diagnosis."



Words were hardly necessary to accompany the illustration of the pearl offered by Dr. Ernest Craige, Foscue professor of cardiology.

The work Bowes recommended is Sir Arthur Conan Doyle's collection of stories about Sherlock Holmes, which Bowes called "a superb text, replete with clinical wisdom."

To illustrate, he quoted Holmes' theory that "When you've eliminated the impossible, whatever remains, however improbable, must be the truth."

Bowes advanced two important values of diagnosis.

"Diagnosis is the keystone to prognosis and successful surgical or medical management of illness. Therapy not preceded by accurate diagnosis may be ineffective or, even worse, dangerous.

"Furthermore, diagnosis is intellectually challenging, while therapy is often mundane," opined UNC's own "Dr. Watson."

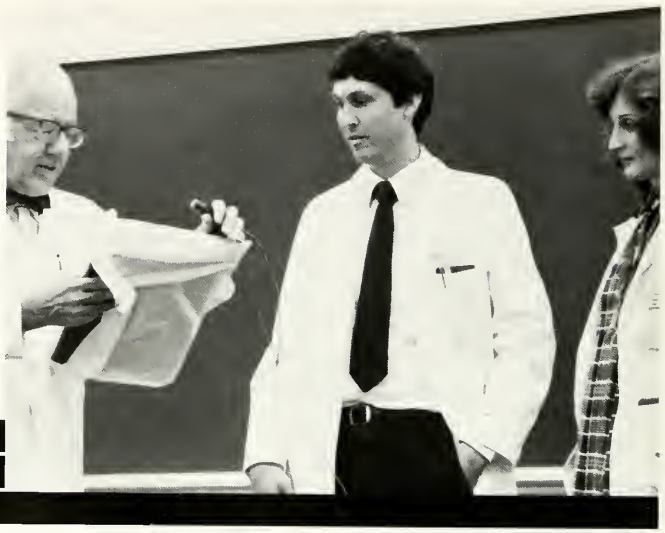
But when making your diagnosis, beware of "the burden of medical technology," said Dr. Henry R. Lesesne (HS '70), associate professor of medicine. It's a lesson of which Lesesne is reminded each time he goes to Africa to conduct continuing medical education for medical missionaries. (On his most recent trip, he stopped over in Paris where he "found a river named after me," he reported.)

Lesesne offered a three-part pearl: "We all need to cultivate the basics of our medical training: history, physical exam and basic inexpensive test...We must be alert to the burden of medical technology; select your tests wisely and cost effectively. And, with the growing number of doctors and restrictions such as DRGs, consider serving in the developing countries of the world. The need is great and many are happy doing so."

The recurring emphasis on basics made Dr. William Blythe's ('51) pearl, which concluded this year's program, an appropriate summary:

So would you be good doctors all
And never from sweet grace would fall,
Do not forget this homily:
Always obtain a good history.

Dr. Colin Thomas (left) presents the Womack Award to Dr. Raleigh Jones, HS '84. Dr. Janine C. Jones, HS '84, who just completed her residency in family medicine, was present as her husband received this honor. The Joneses are planning a two-year term as medical missionaries to Africa.



Extracts

The radiology department is working to develop an advanced communication system where picture images, such as X-rays, could be called-up from a main computer to different display terminals throughout the hospital.

The system is called PACS—Picture Archiving and Communication System. Dr. Brad Brenton, chairman of the PACS committee, said: "Essentially, we're talking about the concept of a picture system that you would normally do with film."

The Division for Disorders of Development and Learning has received two grants to set up a collaborative augmentative communication program with Lenox Baker Children's Hospital in Durham.

The diagnosis and treatment of individuals who are unable to speak is a major concern of the augmentative communication team at DDDL. The team consists of an occupational therapist, a psychologist, a physical therapist, two communicative disorders specialists and a social worker.

During the past five years, team members have evaluated more than 100 clients whose medical problems made it impossible for them to speak. These included individuals with cerebral palsy, neuromuscular disorders, deafness and mental retardation.

Dr. Desmond F. Runyan, assistant professor of social and administrative medicine, has received a $136,000 grant to study the impact of court proceedings and foster care on the sexually abused child.

A research team will look first at the short-term medical and psychological effects of what happens to some 150 youngsters referred to them by social service agencies in Orange and nine nearby countries. Later, Runyan said, they intend to expand their research to examine long-time effects.

"A child's initial evaluation consists of a medical examination, an interview with a psychiatrist or psychologist focusing on what happened at home and then a variety of psychological tests designed to assess the child's level of anxiety and depression," he said. "Social workers will provide us with additional information about family structure and home life."

Funding for the study was awarded by the National Center on Child Abuse.

Fundamental changes in the nation's health care financing system and too few patients could cause 25 to 50 of North Carolina's less efficient general hospitals to close within the next few years, according to the author of a 10-month study of hospitals across the state.

Particularly vulnerable will be hospitals with fewer than 100 beds and those in the mountains, said I. Glenn Wilson, professor and chairman of social and administrative medicine.

Wilson, an economist, presented results of his study in March before North Carolina's Legislative Commission on Medical Cost Containment.

As a group, the state's 132 acute care hospitals are in relatively good financial shape when compared with other hospitals in the South and thoughout the United States, Wilson found.

"But roughly a quarter of our hospitals have occupancy rates well below the level that is considered desirable for efficient operation," he said. "I suspect that most of these won't be in the acute care business five years from now."

People hospitalized with psychiatric problems often have been victims of physical or sexual abuse, according to a psychiatrist in the School of Medicine.

In a study reported in the March issue of the American Journal of Psychiatry, researchers found that nearly one-half of the psychiatric patients admitted to an adult unit at N.C. Memorial Hospital during an 18-month period had been victims of physical or sexual abuse.

Ninety percent of the abused patients had been victimized by members of their family.

The statistics are the result of an in-depth examination of recent patient records conducted by a team of researchers led by Dr. Elaine (Hilberman) Carmen, professor of psychiatry.

Fourth-year medical student Keith McManus is getting an inside look at the American Medical Association and a unique opportunity to participate in its decision-making processes.

McManus serves on the AMA's Council on Constitution and Bylaws as well as on panels on alcoholism and physician mortality. He is the only student representative on these committees and was appointed by the medical student section of the governing council of the AMA.

He also is serving on a newly created Impaired Physician Advisory Committee which will enable him to pursue an interest which he has developed while in medical school at UNC-CH.

Al Osbahr, a student in the M.D.-Ph.D. program, also is involved in the AMA as an at-large officer in the medical student section.

Dr. Raleigh O. Jones Jr. received this year's Nathan A. Womack Scholarship Award.

The award was presented by Dr. George F. Sheldon, chair of the department of surgery, and Dr. Colin G. Thomas Jr., former chair.

The award is given each year to a surgical house officer who demonstrates "qualities of academic excellence so well epitomized by the late Dr. Womack, the department's first chairman," said Dr. Robert D. Croom III ('64), chairman of the selection committee.

Jones was cited for general excellence in teaching, patient care and clinical investigation and his overall contributions to the department's residency program. He recently completed his residency in the division of otolaryngology.

Thomas presented Jones with an individual commemorative plaque. The Womack Scholarship also includes a $500 cash award plus up to $500 for additional education experiences. Winners' names are inscribed on a permanent plaque displayed in the department of surgery.

The award was first given in 1970. Previous winners now serving on the UNC-CH surgical faculty include Croom, associate professor of general surgery; Dr. Timothy N. Taft, associate professor of orthopaedics; Dr. Terry L. Fry ('73), assistant professor of otolaryngology; and Dr. James A. Battaglini, assistant professor of cardiothoracic surgery.

Other recipients have included Drs. Edgar C. Garrabrant ('66), Joey M. Carter ('67), Noel B. McDevitt ('64), Lewis C. Williams, Ronald L. Blumott, Bruce L. Kihlstrom ('72), Stephen R. Grubb, Ormand C. Mendes, Ritchie P. Gillespie, Glenn M. Preminger and Gilbert R. Schlorlemmer.

The first of five floors of the new 200,000 square foot Critical Care Center is taking shape. At left, the Biological Sciences Research Center adjoins South Wing. The Patient Support Tower is above, right.

Dr. Richard Boyd ('56) enjoyed presiding over last year's Family football Weekend. He encourages all alumni to join in this year's fun, Nov. 3, 1984.

Class notes

Manning-Berryhill Club

Max M. Novich, C. Med. '39, director of the National Boxing Safety Center at United Hospitals, Newark, has been appointed to the medical jury for the 1984 Olympic Boxing Games. He has served on the jury during four previous Olympic Games. Novich is one of 12 physicians from throughout the world who were selected to serve on the jury by the International Amateur Boxing Association. He performed pre-fight physicals, served at ringside and made decisions regarding an athlete's fitness to fight.

Robert J. Andrews, C. Med. '44, of Wilmington, is in family practice with a special interest in cardiology. He maintains a busy schedule as deacon at the Temple Baptist Church, president of the Azaka City Kiwanis Club and medical director of the intensive care unit at the Cape Fear Memorial Hospital. He and his wife Mary Leila, have three children—Jack, Kayren and Bill (who is here in physical therapy). Time is spent enjoying tennis (weather and arm permitting), swimming at Wrightsville Beach, travelling here and abroad and, of course, Tar Heel action.

William H. Bell Jr., C. Med. '44, of New Bern and wife Bobbie have four children—two boys (both MDs), two girls (one a DMD)—and five grandchildren. He is still in radiology and also is interested in nuclear medicine. The family enjoys sailing and hunting.

John W. Davis, C. Med. '44, is still in family practice in Hickory. He spends a great deal of time with his family, consisting of six children and 11 grandchildren. Two of his sons are MDs, one a grad of "Pill Hill."

Junius W. (Sonny) Davis, C. Med. '44, is director of the Craven County Health Dept. He and wife Emma have two children, W.B. Rodman and Margaret, who in turn have two children.

Walter E. Furr Jr., C. Med. '44, of Miami Shores, Fla., is still in general surgery. He and wife Alice have four children—Dr. Jane D., Walter E. III, William and James.

J. Stuart Gaul, C. Med. '44, of Charlotte and wife Rose Marie have three children—Emily (a Ph.D. in chemistry this year), John, M.D. '82, (doing orthopaedics residency in Augusta, Ga.) and Bill (UNC '80 and living in Roanoke). Gaul is still in orthopaedic and hand surgery.

40s

Hoke Vogler Bullard Jr., C. Med. '49, and his wife Mary Jane participated in the Friendship Force. They had an interesting trip to Quebec and later were hosts to Canadian guests in their home in Wilson. Bullard served as chief-of-staff at Wilson Memorial Hospital in 1983. The Bullards have four children—Dr. Graham Bullard, Margaret Hayden Bullard, Hoke Bullard III and Mary Jane Bullard

Spinks H. Marsh, C. Med. '49, is retired and living in Punta Gorda, Fla. He and his wife Catherine have two children, Jane and Irene. Jane worked in a pulmonary lab for 18 months and decided to go to medical school. Irene recently graduated from Vassar. Marsh says, "Retirement is great. Trying to learn to operate a boat. Still go to lots of tennis matches, theatre and travel more than we have time for. Weather here a vast improvement over Connecticut."

Edward Burt McKenzie, C. Med. '49, of Salisbury and wife Nancy have four daughters and one son. He is still practicing surgery and G.I. endoscopy.

Charles F. Melchor Jr., C. Med. '49, of Bloomington, Ill., has retired from his radiology practice because of illness. He and wife Pauline are planning to move to Myrtle Beach.

Franklin G. Norris, C. Med. '49, of Orlando, Fla., and wife Sara have two children, Gloria and Gray. Norris is in a group practice of thoracic and cardiovascular surgery. The Norrises still

enjoy their aircraft and have made some wonderful trips, including the grandchildren Grayson Sales (7½ yrs. old) and Jonathan Sales (5½ years old) to "Such far away places as California, Wyoming and lands we never even dreamed of. I am very much involved in my surgical practice so any vacation is a treasured moment."

Arthur C. Quackenbush, C. Med. '49, is in family practice in Bayshore, N.Y. He and wife Julia have five children and one grandchild. He says his current interests and hobbies which are exciting are "playing golf and gin rummy." The not-so-exciting news includes "my golf scores and paying gin rummy losses."

Thomas L. York, C. Med. '49, of Corpus Christi, Texas, says he spends his free time between a rather large ranching business, which includes primarily that of registered Brhmas, and raising commercial hay. Being close to the beach, the Yorks also get in some fishing at their summer home, some 30 miles west of Corpus Christi, where he practices occupational medicine with two assistant physicians.

York has become quite interested over the past 20 years in big game hunting all over the world. He and Alice are fairly active in all the conservation programs of both wild life and fish and he has been president of some international and national associations. He intends to retire from active medicine within the next two years.

50s

William B. Blythe, C. Med. '51, has received a Distinguished Service Award from the National Kidney Foundation. Blythe is professor of medicine and chief of the division of nephrology at UNC-CH.

David M. Anderson Jr., M.D. '54, of Laramie, Wyo., and Martha his wife have three children. His practice is in ob/gyn.

Leland S. "BoBo" Averett Jr., M.D. '54, and wife Betty have three children—Lee, Bob and Sam. He is in family practice. His hobbies are boating, tractor and yard work.

Paul H. Brigman, M.D. '54, opened the Brigman Medical Emergency Clinic in Trinity last July.

Leon K. Cowan, M.D. '54, joined Wilson Dermatology Clinic, P.A., in January of 1981, "returning to my native eastern North Carolina after 27 years away all over." His previous six years have been in private practice of dermatology in St. Paul, Minn., and before that in Buffalo, N.Y., Rapid City, S.D. and in the U.S. Navy (MC).

James C. Parke Jr., M.D. '54, and wife Jane were married in June 1983 and have six children between them. He is the director at the pediatric residency program at Charlotte Memorial Hospital. Son Charles is a recent UNC-CH graduate, and will enter medical school here this fall. Parke was elected chairman of the N.C. Medical Genetics Association in 1982 and re-elected for 1983-84 term.

Edward S. Williams, M.D. '54, of Durham practices in an eight-man internal medicine group. He enjoys spending time at Kerr Lake and water skiing, landscaping his home and following Carolina basketball closely. "Intend to do some traveling, since all kids finally emancipated in 1983," he says. Williams served on the UNC-CH School of Medicine admissions committee, 1980-83.

Bob Watson Brawley, M.D. '59, of Charlotte, and wife Eleanor have two children, Lisa and Diana. He practices neurosurgery. His current interests and hobbies are "flying, twigs (identifying trees) and wild flowers."

D. Whitaker "Whit" Davis, M.D. '59, of Wadesboro is in family medicine. His hobbies are golfing and boating.

John Billy Gentry, M.D. '59, is in pathology in Shelby. Gentry says of his interests and hobbies, "community and church service, music, art, farming, exercise, promoting maternal healthful lifestyles, medical staff and hospital work, continuing education." He has held several offices of the medical staffs of three hospitals, including chief-of-staff, secretary-treasurer, chairman of continuing medical education, infection control and credentials committees.

Many alumni and members of their families will get together for a pig pickin' just before the Tar Heels take on Maryland Nov. 3, 1984. This fall's Family Football Weekend also will include a scientific session. The Medical Alumni Council and the Visiting Committee will meet jointly on Friday, Nov. 2 to discuss the most recent activities of the Medical Alumni Development Task Force.

Rebecca H. Buckley, M.D. '58, chief of the division of pediatric allergy, immunology and pulmonary diseases at Duke medical center, received Duke's University Scholar-Teacher Award, which recognizes an outstanding faculty member for dedication and contributions to the learning arts and to the institution.

Cecil L. Barrier, M.D. '59, and Mary Lou his wife have one child Cecil Lee Jr. He is in general practice and his hobbies are boating and fishing.

Charles L. Gilbert, M.D. '59, of Greenville has a private practice in pathology. Gilbert enjoys gardening, farming, fishing, boating and knife making.

60s

George J. Galasso, Ph.D. '60, of Bethesda, Md., has been appointed NIH associate director for extramural affairs. In

Christopher C. Fordham III, C. Med. '49, UNC-CH chancellor, has been appointed to the Southern Regional Education Board's Commission on Education Quality.

The 14-member commission is made up of educators from throughout the South, one U.S. congressman, a U.S. senator and the governor of Mississippi, who is chairman.

The role of the new commission, Fordham said, is to assist the SREB and other organizations to improve education in Southern schools and colleges.

"The SREB and the commission have some of the most able minds in all the land working on a wide range of tough educational problems," Fordham said. "For example, we are looking at a variety of incentives to attract the brightest minds into teaching."

"We also are looking at some interesting alternative preparation programs for teachers, and we are taking a hard look at the selection and preparation process for high school principals."

"Because of the influence of the SREB, many high schools across the South have raised their graduation requirements to meet stiffer college admissions standards such as those at the University in Chapel Hill," Fordham said.

"We are working very diligently on new ways to improve the effectiveness of counseling in our high schools, and we are especially concerned about meeting the needs of the brightest students."

The Southern Regional Education Board is a 14-state, interstate compact for higher education, governed by a board that includes the governors and legislative and education leaders of those states.

The board provides information to the member states and helps them share educational programs. In recent years it has placed emphasis on strengthening the connection between colleges and public schools.

his new position, Galasso manages all matters relating to the substance, quality, operations and effectiveness of NIH extramural research and training activites. He aids in planning, coordinating, developing and making policy for the NIH extramural program, providing guidance to the NIH director, his staff and the bureaus, institutes and divisions.

Mario M. Stone, HS '62, of Miami Beach, Fla., was a visiting professor at Trinidad and Tobago recently where he lectured on orthopaedic aspects of arthritis and performed surgery. He was also granted the license to practice medicine there by the board of examiners. Stone also was guest speaker at the XIV Peruvian Congress of Orthopaedics and Traumatology and also guest speaker at the Peruvian Orthopaedic Society Annual Convention.

David Williams, M.D. '63, of Thomasville Pediatrics has been named general chairman of the Tom. A. Finch Community YMCA Capital Funds Drive.

Chet W. Taylor Jr., M.D. '63, and son Chet III (the youngest runner), had a good time running the Honolulu Marathon (26.2 miles) recently. Taylor also won the Honolulu Club Racquetball Tournament. Taylor says, "I continue to sail, surf, play tennis and enjoy Hawaiian sunsets." Taylor director of the winward Mental Health Center in Kailua.

William B. Strum, M.D. '65, reports that "several major events have occurred over the past few years while in practice of gastroenterology at Scripps Clinic in La Jolla, Calif." He was recently recertified in cardiopulmonary resuscitation, which carries a one-year reappointment at his hospital. Strum writes that Faye, his wife of 18 years, also has renewed the marital agreement for another five years, "although it continues to be probationary." He "received periodic aerobic experiences" while hiking and backpacking in the Sierras, Grand Canyon and other such places with Allen, 11, and Mary Elizabeth, 10. "Hope to see many, if not all, classmates at the 20-year reunion in March 1985," he writes.

Robert G. Martin, M.D. '68, is an ophthalmologist with Carolina Eye Associates in Southern Pines and is serving patients from throughout the eastern United States. This clinic is one of the first outpatient eye surgery centers approved by Medicare in the United States.

Nick Beard, M.D. '64, practices occupational health and acute care in Charlotte. He and wife Darlene have four children—Melissa, a sophomore at Salem College in Winston-Salem studying nutrition; Teresa, who will enter Averett College in Danville, Va., this fall to study equitation and business; Sharyn, 14, active in chorus and horse back riding; and John Jr., 10 years old and active in all sports, but mainly has a good sense of humor.

Bruce H. Berryhill, M.D. '64, and wife Joan have two children, Julie and Jane. He has a practice in otolaryngology. He enjoys flying and has his own plane. He's working on commercial certificate. Berryhill is building a house at the beach and his plane helps in checking on construction site. He's involved with the Charlotte Symphony (board of directors), WDAV-classical radio station at Davidson College (chairman of advisory committee to the trustees) and does some gardening and wood working in spare time.

Harry L. Broome, M.D. '64, of Alpharetta, Ga., is in orthopaedic surgery practice. Broome says he is a "tennis bum," enjoys bass fishing and his interests include the Atlanta Falcons, Braves and Hawks, and time at Sandestin (Fla. resort).

Hugh Stanley Gregory, M.D. '64, of Jacksonville, and wife Lee have two sons, David and Bryan. He stays busy in his solo practice in otolaryngology—head and neck. His hobbies are sailing, gardening, skiing and woodworking.

Harold Roberts, M.D. '55, professor of medicine and pathology and director of the Center for Thrombosis and Hemostasis at UNC-CH received a Distinguished Career Award at a special ceremony during last fall's meeting of the International Society on Thrombosis and Hemorrhage in Stockholm, Sweden.

Roberts was recognized for his longstanding contributions to the development of knowledge concerning the antibody nature of inhibitors that arise in some patients with hemophilia. The award also recognized Roberts' investigations into newer methods of treating hemophiliacs and his research concerning the relationship between hemophilia and genetics.

A native of Four Oaks, Roberts earned his undergraduate and medical degrees from UNC-CH and served fellowhips in Chapel Hill and at Vanderbilt University before becoming a research associate in pathology in 1961. The following year he joined the UNC-CH faculty.

He became director of the Center for Thrombosis and Hemostasis in 1978 and co-chief of the Division of Hematology and Oncology in the School of Medicine in 1979. He also is director of the clinical coagulation laboratory at N.C. Memorial Hospital.

James E. Peacock Jr., M.D. '75, received the Basic Science Teaching Excellence Award from students at the Bowman Gray School of Medicine of Wake Forest University.

Peacock, assistant professor of medicine (infectious diseases), received the award from members of the school's sophomore class for outstanding teaching in the basic medical sciences.

Peacock, who received the M.D. degree with honors, completed residency training in internal medicine at the University of Virginia Medical Center in Charlottesville.

Before joining the Bowman Gray faculty in 1982, he completed fellowships in infectious diseases at the University of Virginia Medical Center and at UNC-CH, where he was an instructor in internal medicine (infectious diseases) for one year.

He is continuing his research on the usefulness of acyclovir, taken orally, in preventing the recurrence of genital herpes.

He and his wife, the former Patti Phillips, have two children.

Robert W. Madry, M.D. '67, married Susan Elaine Winkler originally from Dallas on April 27. He has been practicing cardiology in Corpus Christi, Texas since late 1975 and is now in a partnership with three other cardiologists. He is chief of cardiology at Spohn Hospital, where the principal cardiac program in the city is located. He has three children—Lisa, 15, Rob, 13, and Eric, 6.

Edward H. Brenner, M.D. '69, of Freehold, N.J., is in a ophthalmology group practice, which has recently been expanded to eight ophthalmologists. This practice consists of six practicing general ophthalmology, one doing retina-vitreous as an exclusive sub-specialty, and another doing pediatric ophthalmology. They have purchased a tract of land and are in the process of designing their own office and outpatient surgicenter.

Paul E. (Gene) Brown, M.D. '69, of Hickory and Pat have three children. He has a orthopaedic surgery practice. He enjoys gardening, growing orchids and water sports. He just completed his summer home on Lake Hickory.

Steward L. Ellington, M.D. '69, of Salt Lake City, Utah, and wife Janet have two children. He has a solo practice in gastroenterology. He enjoys skiing and the whole family enjoys tennis.

Eugene B. Ferris III, M.D. '69, of Honolulu, and wife Anne have three children. His practice is in vascular general surgery. His whole family enjoys tennis. He's taking flying lessons.

Ellis Fisher, M.D. '69, of Gastonia, and wife Meg have two children. He's in a group practice of pediatrics. He enjoys running (completed three marathons) and family oriented activities. He has been involved in a sailing camp for girls as a camp seafarer physician for the past 11 years. Fisher is actively involved in child abuse prevention in the community, and is a child medical examiner for state CMI system.

70s

George M. Oliver Jr., '70, is in solo practice of ob gyn, and is chief of the medical staff at Carteret General Hospital in Morehead City. He and wife Charlotte had their sixth child, Peter Smithwick, December 15, 1983.

James Stewart Reed Jr., M.D. '72, has been elected to fellowship in the American College of Physicians. He was honored during the convocation ceremony at the ACP's annual session in Atlanta in April.

Reed is on the staff of the University of Kansas College of Health Sciences and the Kansas City Veterans Administration Medical Center.

Michael Gaynon, M.D. '72, and wife Susan have one child, Lisa, born Sept. 22, 1983. Gaynon continues full time as a faculty member in ophthalmology at Stanford University Medical Center.

Roberta S. Gray, M.D. '72, has been named associate professor of pediatrics at the East Carolina University School of Medicine.

John Baker, M.D. '74, of Raleigh, has been in private practice in ob gyn since March 1978. He served on search committee for the new chairman of ob gyn department here. Baker's hobbies include playing golf, running, playing basketball and teaching. He is involved in hospital medical staff activities and follows Tar Heel basketball and football.

Don Brown, M.D. '74, is practicing family medicine-geriatrics. In January 1985 he plans to go to India to explore and work in a hospital at the foothills of the Himalayas. This will be his third trip to Asia. The last one lasted 12 months. He also worked three months in Kenya in 1979 and two weeks in the Gambia (Africa) in 1983.

Paul S. Camnitz, M.D. '74, and wife Jill have two children Will and Kate. He is a clinical assistant professor of ENT at East Carolina University and has a private ENT practice. Camnitz received ECU's Student Teaching Award 1983.

David L. Coppedge, M.D. '74, and wife Jacqueline, of Framingham, Mass., have two children, Jeffrey and Davin. His practice is in ob gyn and specialty is high risk obstetrics and gynecologic cancer. In his leisure time, Coppedge likes to fish, travel and bike riding.

William M. Grant, M.D. '74, is director of anesthesia at St. Elizabeth Hospital in Danville, Ill. Grant likes cross country skiing and is the winner of the fifth

"I hope that my presence in the black community is felt as a positive influence and has an impact on children's lives, whether it be medical or social," **Deborah A. Scott, M.D. '78,** said in a recent interview in the Charlotte Post.

A pediatrician specializing in adolescent medicine, Scott has been in practice in Charlotte since 1978 when she completed her residency at Charlotte Memorial Hospital.

Scott "is thought of as nothing other than a positive influence," Post writer Lori Grier says in her article.

There are three special professional achievements of which Scott is especially proud.

"Having started my own business, being a success in it thus far and being able to be a positive role model for children."

She notes that there are many blacks in pediatrics today, compared with 20 years ago.

"There has been an increase in the number of black students going to medical school, because they are exposed to more blacks in medicine and feel they can do it. The biggest obstacle has been financial, but this is not an obstacle which can't be dealt with."

Scott's twin sister was her classmate in medical school here. **Dianne L. Scott, M.D. '78,** is an anesthesiologist at Duke University Medical Center.

Internation BBO Contest that was held in Memphis, Tenn.

Marcona Hines, M.D. '75, of Durham, recently participated in a seminar at Livingstone College to expose students to prominent Livingstone alumni who have made significant contributions to the field of medicine and science. Hines is in practice with **Kenneth Banks, M.D. '73.**

Gretchen Sampson Okiye, M.D. '77, is in a five-person group of pathologists at St. Joseph's Medical Center in Beverly Hills, Calif.

Howard Stang, M.D. '77, of Hugo, Minn. and wife Jill announced the birth of their second child Erik on March 27. "All are doing well," Stang reports. After surviving another Minnesota winter, the Stang's prepared "to do battle with the summer mosquitoes (our state bird)."

Christopher M. Wise, M.D. '77, was promoted to assistant professor of medicine at the Bowman Gray School of Medicine. Wise is active in the medical school's teaching, research and patient care programs. His research interests involve arthritis of the spine, Raynaud's disease and pseudo-gout.

T. Rupert Ainsley Jr., M.D. '78, and wife Margaret have one child, Thomas. He is in private practice of internal medicine in Sanford. Ainsley has become interested in registered Morgan horses and started a small "backyard" breeding farm which helps keep his family "even busier."

Edwin (Ed) Clary Bartlett, M.D. '78, of Greenville and Sandy, his wife, are busy with five-year-old twins Susie and E.B. Bartlett is currently an orthopedic consultant to ECU in sports and medicine and active in animal research.

John Benson, M.D. '78, of Houston, reports "I still follow the Heels, particularly the basketball team. Jo Nell (his wife) is an avid Kentucky basketball fan, so that sometimes causes problems. We both hope to move back to the Southeast somewhere after next year."

Brian Cohen, M.D. '78, of Ann Arbor, Mich., was in Boston this past year to do a year of clinical nephrology fellowship at Massachusetts General Hospital, and was at the same hospital and in the same apartment complex as **George Edwards, M.D. '78,** who was doing a hand surgery fellowship. Edwards and wife Lynn are now in Raleigh with two children Susan and George III.

Jane Burns, M.D. '78, and husband, **John Gordon, M.D. '78,** have one child, Lisa, and are happily settled in an old Victorian home in Brookline, Mass. Both are serving fellowships in the Boston area—Burns in pediatric infectious diseases at Children's Hospital; Gordon in cardiology at Brigham and Women's Hospital.

Stuart Segermand, M.D. '78, was recently named medical director of the emergency care unit at St. Joseph's Hospital in Atlanta.

Peter Schlesinger, M.D. '78, of Roseville, Minn., has been appointed an assistant professor of medicine at the University of Minnesota. He will be doing clinical teaching and patient care in general internal medicine and rheumatology at Hennepin Co. Medical Center in Minneapolis.

80s

Paul J. Befanis, M.D. '80, of Baltimore recently spent a three-week clinical rotation at the Christian Hospital in Taxila, Pakistan, performing 365 cataract operations. He also visited Egypt, Thailand, mainland China, Hong Kong and Hawaii during this working holiday. Befanis will complete his eye residency at the Greater Baltimore Medical Center and will do a one year vitreo-retinal fellowship at the Washington Hospital Center in Washington, D.C.

Bob Rountree, M.D. '80, of Boulder, Colo., has completed his residency in family practice in Hershey, Pa., where he met and married his wife, Annie. The wedding was in January 1983. He's practicing in a multidisciplinary clinic. He and Annie are taking advantage of the Rockies, going skiing, hiking and biking as much as possible. Rountree writes, "I have also taken up a teaching position at the Rocky Mountain Healing Arts Institute. Any classmates heading out to ski country are invited to drop by!"

Ophelia E. Garmon-Brown, M.D. '80, of Durham has become an associate in the practice of medicine with **Sampson Harrell, M.D. '72.** Garmon-Brown was named a diplomate of the American Board of Family Practice as a result of certification examination offered by the ABFP.

Michelle H. Wynn, M.D. '80 and **O. Barry Wynn, M.D. '79,** have established practices in pediatrics and general surgery, respectively, in Bladen County. They completed residencies this summer in Toledo.

Lena Katherine White, M.D. '81, of Greensboro has joined the medical staff at the Morven Area Medical Center. She is in family medicine, with special interests in ob/gyn, behavioral counseling and community education.

Gregory Scott Pape, M.D. '84, married Suzann Ruth Woodliet in February of this year.

Susan Jane Joyner, M.D. '84 and **Ronald Edward Pruitt, M.D. '84** were married in February.

Deaths

Thomas Henson, C. Med. '35, Greensboro
William R. Nelson, M.D. '70, Winston-Salem

William E. Easterling Jr., M.D. '56, associate dean for clinical affairs and chief of the hospital's medical staff, has named a committee to review communication with referring physicians. The committee began its work in May. At press time, it was preparing to report to Easterling and to Eric Munson, executive director of N.C. Memorial Hospital. Easterling discusses communication on the facing page.

Action taken to improve COMMUNICATION

The leaders of our Medical Alumni Association have issued a challenge. They have challenged the association and the School of Medicine to continue actively to strengthen their relationship for mutual benefit, and ultimately and most importantly, for the benefit of the citizens of our state who have entrusted us with their health care.

Dr. Richard Boyd, along with other officers and councilors, established the Medical Alumni Association Development Task Force, and as we reported in the last issue of the Bulletin, the group spent many hours producing a report that received thorough consideration during Medical Alumni Weekend. The task force concluded that "the primary objective for the Medical Alumni Association is *improved communication* between the MAA and the School of Medicine." This direction was unanimously approved by the Medical Alumni Council and the Visiting Committee and affirmed by the administration of the School of Medicine. We all concluded that effective communication is essential to the success of any enterprise or relationship, while a serious lack of communication has the opposite effect. This is certainly true in a medical center.

With this encouraging stimulus from the MAA, refining and improving all forms of communication between faculty and referring physicians have become even higher priorities for the institution. Academic medical centers have passed through several cycles in recent history, in this case from the post-World War II emphasis on research through the 70s' concern with delivery of health care. The resources provided to meet our goals have enabled us to build a faculty with outstanding credentials in medical science as well as teaching and patient care. As a result, we have been able to educate many excellent physicians now in practice across the state. When these physicians make referrals to the medical center, they seek not only the very best care for their patient, but also a complete relationship with the faculty physician. This institution, admittedly, has been slow to provide that relationship. Yet we have made a lot of progress in the last three to five years, and we understand the problem which our Medical Alumni Development Task Force has brought further into focus.

To address this challenge, I have appointed an ad hoc committee of the School of Medicine and the North Carolina Memorial Hospital to review the current systems and practices for patient care communication with referring physicians and to devise for the institution a plan which will effectively resolve the long standing deficiences leading to dissatisfaction among our referring colleagues. Specifically, the charge to the committee was to:
—identify the major areas and types of patient care communication which are judged to be effective as practiced here and elsewhere,
—identify the major areas and types of patient care communication which are judged to be deficient,
—recommend standards for all services for both inpatient and outpatient referrals to be considered for adoption as policy by the hospital's medical staff and the medical school's Medical Faculty Practice Plan (MFPP);
—develop with MFPP and the hospital an ongoing plan to monitor communication.

I am most pleased that Dr. Robert Cefalo agreed to chair this committee. His leadership has been instrumental in past improvements in our endeavors. Medical alumni serving on this committee include Drs. Dan Crocker of Rocky Mount and Joe Russell of Wilson, as well as Drs. Gerald Fernald and George Johnson of our faculty. The faculty also is represented by two department chairs: Dr. William Droegemueller of ob-gyn and Dr. James Hayward of neurology. Other faculty members are Drs. Robert Gwyther (family medicine), William Trier (surgery), Dwight Evans (psychiatry) and William Heizer (medicine). Charles Foskey and Andrew McCulloch represent MFPP and hospital administration, respectively.

I am confident—and I offer the assurance of the administration of the School of Medicine and the North Carolina Memorial Hospital—that we will continue to build on the progress of the past, using the present initiative of concerned alumni and faculty to resolve the communications problems which remain.

—William E. Easterling Jr., M.D. '56

It helps to know about GENETICS

Twenty years ago, patients of children with birth defects did not have many places to find some answers. Most of the time, they were left to wonder if future children could have the same defects.

Today, people are becoming aware that a great number of genetic disorders, such as some birth defects, can be anticipated or diagnosed by doctors trained in this field of medicine.

Dr. Henry N. Kirkman Jr., chief of the division of genetics and metabolism in the department of pediatrics, said there are more than 2,000 genetic disorders in human beings. Examples are the chromosome abnormalities such as Down's syndrome, hemophilia and spina bifida.

Most parents who seek genetic counseling want to know whether a particular birth defect is hereditary.

"Rather often, we have good news for people. About one-half of the time, we find out it is not hereditary or that the risk is much less than the parents thought," he said.

Dr. Philip Green, genetics researcher, purifies plasma DNA.

About half of the 2,000 or more hereditary diseases belong to the class known as autosomal recessive. These occur because both parents happen to carry the same abnormal gene and the child received the same abnormal gene from both parents. Examples are cystic fibrosis, sickle cell disease and albinism.

Kirkman said that all of us carry three to five genes that could cause a genetic abnormality. "The parents of these children have no more abnormal genes than you or I," he said. "Unfortunately, both parents were carrying the same abnormal gene."

Often, a mother may feel she is to blame for her child's problem because of something she did during her pregnancy, Kirkman said. One of the responsibilities of the genetic counselor is to explain to the parents exactly how the condition occurred, and to eliminate any inappropriate feelings of guilt the parents have concerning the child.

"We feel the discipline of medical genetics is like the discipline of infectious disease—that all doctors will need to know a certain amount of medical genetics and that much of the genetics counseling that occurs in the U.S. will need to be done by the patient's own physician," he said.

Through attending conferences, lectures and working with patients in the genetics division, young doctors have been able to acquire experience in genetic diagnosis and counseling. The recently established American Board of Medical Genetics gives examinations to certify professionals in this new field of medicine. Relative to the size of the Piedmont population, a record number of present and former UNC-CH staff and faculty members have passed this examination, Kirkman said.

The medical center also has an active program in general genetics. It began in 1961 and now has about 25 Ph.D. candidates. With a faculty of more than 50, the UNC-CH program in basic genetics is among the most outstanding in the nation.

Calendar

Medical alumni activities

September		
15	Medical Parents Day	Berryhill Hall
29	Co-Founders	UNC-CH Art Center
November		
3	Alumni Fall Weekend	Chapel Hill
5	Alumni reception during Southern Medical Association meeting	New Orleans
March 1985		
15-16	Medical Alumni Weekend	Chapel Hill

Continuing education

September		
7-9	Practical Dermatology	Grove Park Inn, Asheville
17-19	Pediatrics Flexible Bronchoscopy	Chapel Hill
20-22	Pediatrics Flexible Bronchoscopy	Chapel Hill
22-23	Preschool Assessment (PT)	Chapel Hill
October		
1-3	International Valve Symposium	Bermuda
26-27	Medico-Legal Seminar	UNC-CH
26-27	Psychopharmacology for the Practicing Physician	UNC-CH
November		
1-2	Current Topics in Urology	Carolina Inn, Chapel Hill

For more information about C.M.E. courses, contact the Office of Continuing Medical Education, 231 MacNider 202H, Chapel Hill, N.C. 27514 (919) 962-2118.

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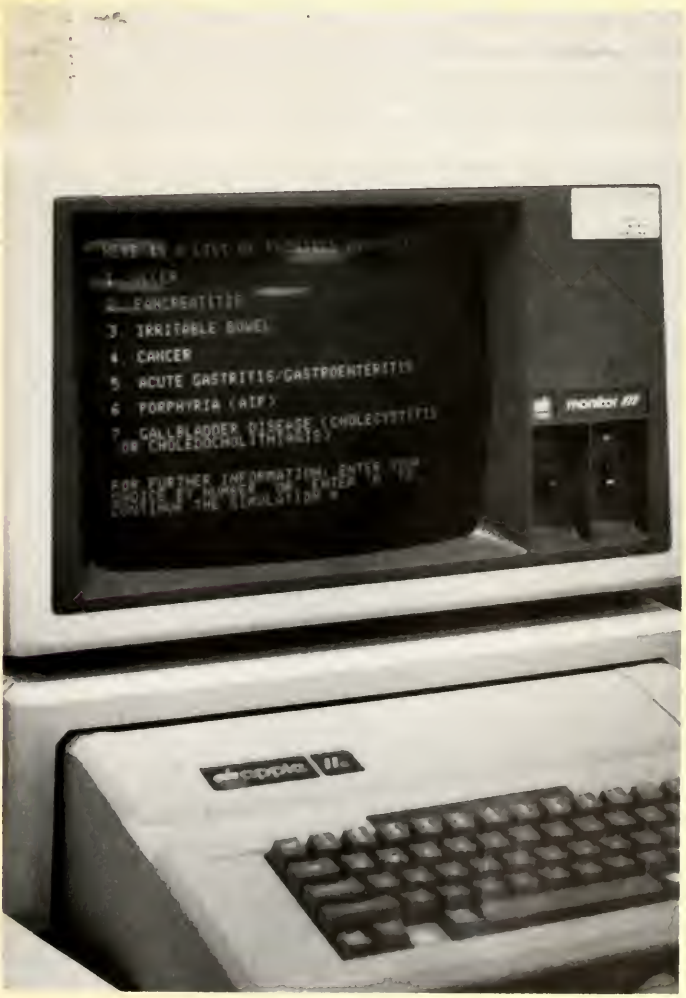

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Behind the lines

Dr. William D. Mattern, associate dean for academic affairs, reports that plans have moved very swiftly in implementing programs recommended by the curriculum review task force.

Among these recommendations were: a transition course to serve as a bridge between the second and third years, teaching cost containment, and multiple efforts to introduce computers as powerful information management tools.

Three articles in this issue describe what Mattern calls "three very substantial programs that embody the recommendations of the task force."

Substantial changes in the medical curriculum were among the highlights of the year in the School of Medicine. A lengthy, but by no means complete, list of the year's highlights is included in these pages.

We've attempted to include a variety of activities and accomplishments to give alumni and friends a broad overview of the year. It would, of course, not be possible to list everything of significance that happened in a place like this.

This is also the issue with our annual listing of alumni and friends who have made monetary contributions during the year. As always, a lot of people have worked very hard to make sure these lists are accurate. If there are any mistakes, we apologize in advance.

—JWB

New course eases the TRANSI-TION

The transition course was deliberately placed in the "teachable moment" at which the basic science classes are still fresh on one's mind, and one is anticipating joining the health care team.

Most people involved in the new transition course for rising third-year medical students judge the first run to be a success.

The course, an intensive 80-hour program that took place in the last two weeks of May, sought to introduce new third-year students to the clinical environment. More than 140 faculty and staff members contributed to instruction, according to Dr. William D. Mattern, associate dean for academic affairs. Mattern was course director.

Mattern said that experience and input from faculty and students will be used to modify the course when it is repeated next spring.

The School of Medicine's curriculum review task force recommended the course to serve as a bridge between the classroom and the hospital.

Relying heavily on small group experiences, the course was designed to expand medical students' orientation to the hospital, other members of the health care team and basic clinical skills.

"There are skills that students must use almost from the beginning of their clerkships," Mattern said. "Yet in the past, they've had to learn them 'on the job,' "

The transition course included sessions on X-ray and EKG interpretation. It also exposed students to "gathering, organizing and presenting information derived from the physical examination, patient interviews and review of the medical record."

The course emphasized oral case presentations. On the last day of the course, each student presented a patient from the medical record. Such a presentation is not a usual part of clerkships, nor is the immediate feedback which the transition course provided.

Further orientation to patient care was offered through computer simulation. A "patient" was presented with various symptoms. Students made diagnoses and planned treatments. The computer gave results at each step and ultimately let the aspiring physician know what all this cost.

The curriculum review process revealed that first- and second-year students couldn't always see the relevance of labs. Yet third-year students often regretted not being able to recall more of what they had learned during the basic science years.

The transition course was deliberately placed in the "teachable moment" at which the basic science classes are still fresh on one's mind, and one is anticipating joining the health care team.

Putting the transition course together was much like setting up an entire semester. Two of those doing much of the administrative work were Madeline Beery, instructional development consultant in the Office of Research and Development for Education in the Health Professions (ORDEHP), and Lou Ann Brower, administrative assistant in the Office of Academic Affairs.

Student input was crucial to the design of the course. Fourth-year student Joel Schneider brought unique experience to the planning process. He had designed his own independent transition course last year. This year he organized a group of 10 student preceptors, rising fourth-year students who worked with faculty members.

Drs. Curtis Harper and Sue Estroff listen to a discussion of the role of a class advisor at a luncheon earlier this fall. They are among the 39 faculty members serving as advisors for the class of '88. For previous classes, each advisor has served about 32 students. The curriculum review task force recommended a much smaller ratio. Medical alumni serving as advisors for this year's entering class include: Drs. Paul Biggers ('63), John Cuttino ('71), Marion Danis (H.S. '78), Ron Falk ('77), Terry Fry ('73), Bill Henry ('77), Marianna Henry ('77), Stanley Lemon (H.S. '75), Mack Lipkin (H.S. '73), William McLendon ('56), Rick Pillsbury (H.S. '81), William Wood ('56), Bonnie Yankaskas (Ph.D. '82), and Jim Yankaskas (H.S. '81). Other advisors are: Drs. Richard Baker, Watson Bowes, Hugh Burford, John Cudlowski, Myra Collins, Alan Cross, Fred Dalldorf, Janet Fischer, Newton Fischer, Mike Fleming, Leonard Gettes, Charles Herbst, Kathy Huffman, Jaraslow Hulka, Morris Lipton, Stanley Mandel, Donald Patrick, Baltour Sartor, Ross Simpson, Ken Sugioka, George Summer and Colin Thomas.

"Transition course students really appreciated the presence of those who had recently gone through the transition from second the third year," Mattern said.

Students also liked the basic intent of the course and the chance to work with faculty members in small groups. Some of the faculty participants were senior faculty and division heads whose heavy administrative responsibilities usually limit contact with undergraduate medical students. Thus, in the transition course, students got to know and learn from outstanding faculty members to whom they might otherwise have had little exposure.

"Faculty members did a magnificent job," Mattern said. "Nearly 100 faculty members from all departments participated. Faculty members think the course is worth spending time on."

The course also appears to have stimulated faculty interest in serving as class advisors. "A large number of faculty members had the opportunity for close contact with students. Another project (also growing out of the curriculum review) for similar contact and influenced by this one is the new advisory system in which each advisor has about four students," Mattern said.

Evaluation of the course is continuing at various intervals as third-year students progress through their clinical experience. Dr. William C. McGaghie, an associate professor in ORDEHP, is directing this evaluation with help from Dr. Barbara R. Renner, an educational consultant with the rehabilitation program.

But some important early results are in and the report is good.

Mattern notes: "Clinical faculty are impressed with third-year students' ability to perform various skills at an earlier stage than previous students."

Students learn to control COSTS

"Studies indicate that increased awareness of cost issues and feedback about charges can reduce charges by 30 percent without a negative impact on the quality of care."

The School of Medicine has received a three-year, $175,000 grant to teach medical students about cost containment in health care.

The grant, awarded by the Kate B. Reynolds Health Care Trust, will be used to develop a model program to teach cost-effectiveness to students in all four years of medical school.

Drs. Carl Lyle and William D. Mattern, both professors of medicine, are directors of the project which is scheduled to run through June 1987.

The curriculum review indicated a need for teaching cost containment to medical students.

"Mandates to control health care expenses have multiplied over the past decade," Lyle said, "but only in the past few years have medical educators agreed that the teaching of cost-effectiveness must become an integral part of the medical school curriculum.

"Physicians initiate more than 70 percent of all health care costs," he explained. "At North Carolina Memorial, for example, the average first-year resident will initiate $1.25 million in health care expenditures during his or her first year as an M.D."

The new program is based on showing, rather than telling, medical students about cost containment, Lyle said.

During their first year in medical school, students will be given an overview of historical aspects of the present cost dilemma. Students also will be given a chance to interview patients who have experienced financial hardship as a result of ill health. Lyle said this may help students understand that a patient's economic status is but another vital sign to consider in diagnosis and management.

Third-year medical students will receive daily cost statements for each of their patients and an itemized summary of the patient's hospital bill after he or she is discharged. They also will have the chance to participate in pre-admission discharge planning and step-down care activities at the hospital.

During the fourth year, medical students may choose two new electives in cost-effectiveness and ambulatory care. Faculty members from each medical subspecialty also will incorporate cost-effectiveness material into their educational programs.

Lyle said many activities, including workshops at the beginning and end of each academic year, will be planned to assist faculty members in implementing cost principles in their patient care and teaching.

Pilot studies at Memorial and at affiliated Area Health Education Center community hospitals show that a climate of cost awareness can be created among attending physicians and residents, Lyle said. "These studies indicated that increased awareness of cost issues and feedback about charges can reduce charges by 30 percent without a negative impact on the quality of care."

The Kate B. Reynolds Health Care Trust, a private foundation located in Winston-Salem, was created in 1946 through provisions in the will of Mrs. William N. Reynolds for the purpose of improving health care to the people of North Carolina. Approximately $2 million is awarded annually in grants to non-profit organizations throughout the state.

The trust's current areas of interest are programs which promote access to primary health care; alternative health delivery programs which are cost-effective; and illness prevention/health promotion programs.

Notebooks to give way to COMPUTERS

"We can't reduce the number of facts medical students have to learn, but we can help them organize the facts."

The usefulness of all those books, articles and notes from college and graduate or professional school has always been severely limited for many of us. We don't remember what we have and where material on a particular topic can be found.

Yet through the years, we've been exposed to much information to prepare us for what we're doing now. It's more than we can remember, but it's summarized in those notes and the highlighted passages in textbooks we've kept, yet rarely go back to. As we continue our work, we keep reformulating information. Unless this information is somehow organized, it too becomes hard to get back to.

Many people say computers offer a solution to this problem. Among them are educational specialists in the School of Medicine. They're developing a pilot project designed to teach medical students how to use computers to manage information.

The project is being sponsored by the General Foods Fund through a grant to the National Fund for Medical Education. The two-year, $77,221 grant was awarded to Dr. Charles P. Friedman, associate director of the Office of Research and Development for Education in the Health Professions.

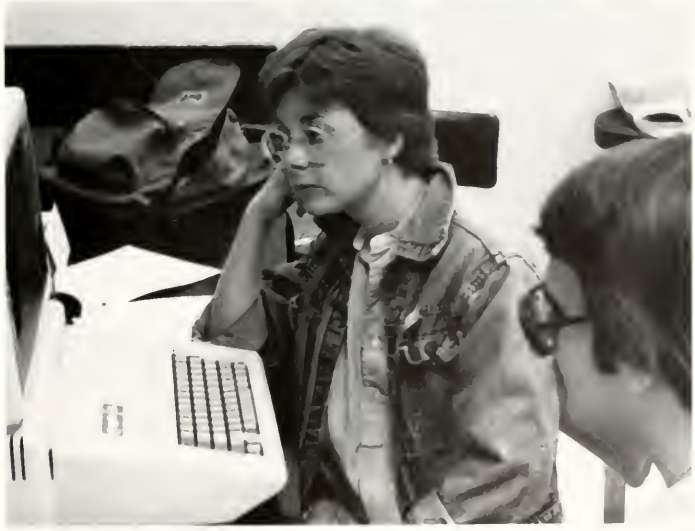
When a faculty-student-alumni task force began a thorough review of the medical curriculum nearly three years ago, one of its concerns was the multitude of facts necessarily heaped upon medical students.

The work of the task force, which included more than 200 individuals, resulted in a revised curriculum which was implemented this fall. One of the recommendations of the task force was that students be taught throughout the curriculum to manage information more effectively.

To do this, it was decided, students should learn to use information technology in their various courses.

"We're trying to introduce the computer in a sensible way," Friedman said. "We felt if we put in a course on information management or computers, it would be yet another course competing for hours with all the other courses. Also, this would compartmentalize computers, which is contrary to the basic idea that computers are to be used as tools throughout the curriculum."

The pilot project is being conducted in the first-year microbiology course. The 1984-85 academic year will be devoted to developing the actual method the students will use in putting information into and taking it out of the computer. Then, exercises will be designed to help students learn microbiology more efficiently using the information in the com-



puter. In 1985-86, this system will be used in the course for a large group of students.

"We will give the students an opportunity to build a personal data base on the computer," explained Madeline Beery, instructional development consultant.

The data base in microbiology will have three components. The first is a fact file. The second is a concepts file which will help organize the facts.

The final component will be citations: references or quotations from journals, textbooks and various teachers.

"Faculty physicians are very critical sources of information. It's important that student files can capture this, too," Beery said.

Ultimately, the plan calls for medical students to put information into the computer that they can retrieve easily and use effectively at any point in their education and later in practice.

Both Friedman and Beery stress that students will not be taught to be computer programmers or to be "computer literate." They'll use the computer as a tool to help them learn basic subject matter and retain what they have learned.

An important aspect will be learning to use "search words." Simply put, you ask the computer to give you all references to, say, "cell wall." You get information from various courses on that topic. From one source you might get a list of germs that attack the cell wall; from another, diseases that weaken the cell wall; from yet another, drugs that affect the way substances pass in and out of a cell.

"We can't reduce the number of facts medical students have to learn, but we can help them organize the facts," Berry said.

Designers of the pilot project, besides Friedman and Beery, are Dr. William D. Mattern, associate dean for academic affairs, and Dr. Robert Twarog, associate professor of microbiology and immunology.

They are all members of a large group which is developing a more comprehensive program to be based on this pilot project. This group was established in January 1983 by Dr. Stuart Bondurant, dean of the School of Medicine, and includes faculty members of the various clinical and basic science departments. Also involved are Samuel Hitt, director of the Health Sciences Library, and several members of his staff.

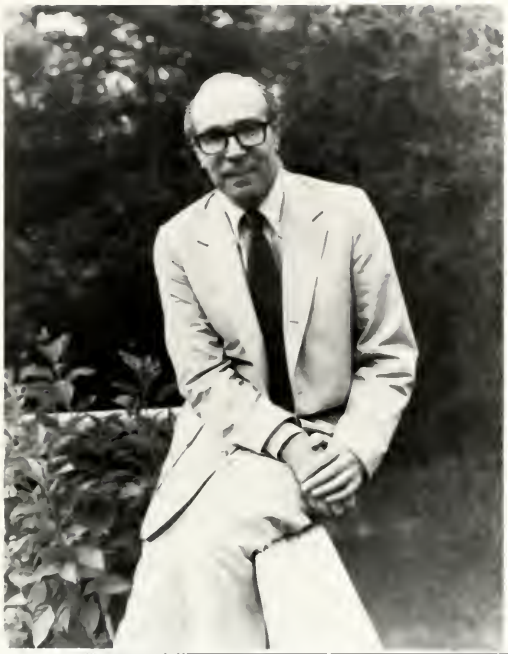
The library staff members have both interest and expertise in computerized management of information, Friedman noted. "And our larger project will have a significant library component," he said.

The grant for the pilot project was one of 15 awarded by the fund this year from among more than 150 applications.

The National Fund for Medical Education was chartered by Congress in 1954 to mobilize voluntary support for medical education. It has awarded more than $57 million to medical schools, societies and consortia since its founding in 1949.

The fund's primary mission is to promote the best possible health care for the American people through improvement in medical education.

Dr. William Mattern (right) associate dean for academic affairs, conducts an orientation luncheon for new class advisors. At left is Dr. George Summer, professor of biochemistry.



Dean's page

I write these words in mid-August, one of the high points of the academic year, when 160 very bright and dedicated young men and women enter medical school for the first time and embark on the marvelous adventure of learning to be physicians. Most of us cherish the memories of many of those early, inspiring and sometimes formative experiences. One of my greatest pleasures and challenges is addressing the entering class on its first day. I thought alumni might be interested in the content of my remarks and I would welcome the thoughts of others. Since much of the first few days deals with housekeeping details and the students will plunge soon into the basic sciences, I try to offer them a context for their experiences.

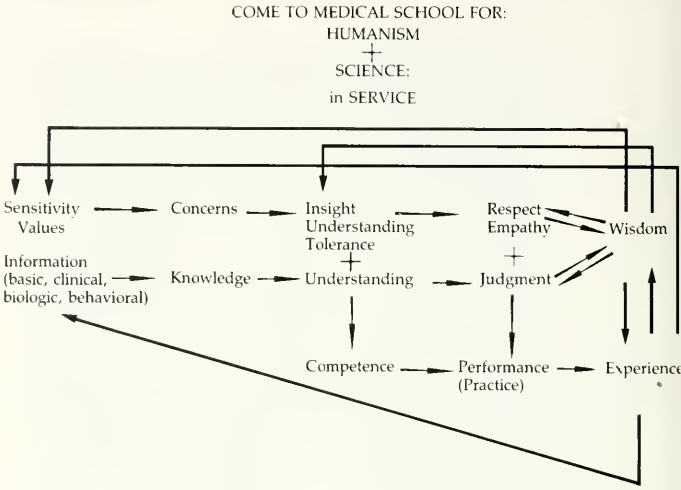
After expressing our pleasure in having them with us, I point out, among other things, the great good fortune of each student to have the opportunity to study medicine provided so generously by the taxpayers of North Carolina and by the wisdom and deligence of those, including students in previous classes, faculty and staff who have made this one of the world's great medical schools (I say modestly). I point out that the fine medical education they will receive is a legacy and that as beneficiaries of that legacy, they have an obligation to join us, their predecessors, in sustaining and improving this legacy for future generations and in applying their medical education consistent with the purposes of those who made it possible in service to the people of the state and nation and the world.

To offer a framework or context for their experiences to come based upon their purposes in entering medical school, I draw the following diagram on the blackboard. (→ means may lead to)

Space does not permit me to comment on each step as I do for the students. For those who enjoy diagrams, I hope the point comes across that knowledge and understanding of both the scientific and humanistic aspects of medicine are necessary, but not alone sufficient and that the value of experience itself depends, in part, upon the presence of an information base and a set of personal values and sensitivities.

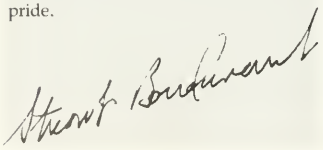
I also point out, among other things, that shortcuts—as for example, from information directly to practice, without knowledge, understanding or judgment and without considering the individual patient—are possible and are sometimes necessary and useful. But these shortcuts define a technology or a trade or a discipline, as distinguished from a profession, if they are the usual basis for practice.

On the other hand, great personal growth and fulfillment can come from sustained and informed attention to each element of the diagram, however expressed and the resulting professional practice of medicine can be among the most precious contributions to the welfare of mankind.



83-84 Highlights

1983-84 in the School of Medicine of the University of North Carolina at Chapel Hill was marked by outstanding accomplishments by our faculty and students. Many of their achievements in education, patient care, research and service are highlighted on the following pages. The list is by no means all inclusive, but is meant to give examples of accomplishments in which all the people of North Carolina should take pride.



Teaching programs

- The implementation of the revised curriculum began with the first presentation of the transition course which was considered very successful. Those students, now in the third year, are identifiably different, relate better to patients and have steeper learning curves.
- Our medical graduates, as usual, fared very well in the National Residency Matching Program: 83 percent received one of their first three choices; 70 percent are in university hospitals. It is also noteworthy that 58 percent chose primary care of which about 15 percent are in family medicine.
- Sixteen medical students gave outstanding presentations of their individual research projects during Student Research Day. Robert Wainer ('84) of Greensboro and Suzanne Kirby ('86) of Charlotte were named co-winners of the first-place Kuno Award.
- The faculty formed a student reserach society, named in honor of Dr. John B. Graham ('40), to confer membership upon students who make presentations during Student Research Day. The first members of the society were inducted in the spring.

- The first Edwards Distinguished Scholarship in Medicine was awarded to Julia Ogden Lunsford, a first-year student from Burlington. The scholarship was established by the families of Kenneth R. Edwards and A. L. Hobgood Jr., long-time supporters of medical student scholarships. The Edwards Scholarship, a merit award, covers expenses for four years of medical studies.

- Ten students were selected to receive Holderness Medical Fellowships for 1984-85. Each $3,000 award supports research and other scholarly work of the students. The fellowships were established in 1980 by the Howard Holderness family of Greensboro.

- Medical students Virginia H. Burns and John Mark Bennett were named the first recipients of Womack-Whitson Foundation scholarships. The foundation was established by Dr. and Mrs. Theodore C. Whitson ('63) of Atlanta.

- The Community Pediatrics Outreach Program was the recipient of the 1984 Outstanding Teaching Award of the Ambulatory Pediatric Association. Dr. Michael C. Sharp, assistant professor of pediatrics, is director of the program.

- Two radiologic science students, Melanie Croft and Gina Brinkley, were among only three students in the country to receive awards for outstanding research from the National Electrical Manufacturers Association. Croft was one of three UNC-CH radiologic science students to win honors in statewide research paper competition.

- The medical school was accredited as one of only nine schools in the country to offer a graduate medical education program in general vascular surgery.

- The Family Practice Center's residency program marked its 10th anniversary.

- The clinical scholars program received an additional $71,000 from the Robert Wood Johnson Foundation to support fellowship training of a seventh participant.

- The North Carolina Area Health Education Centers (AHEC) Program received a special award from the North Carolina Adult Education Association. AHEC was cited for its creativity, effectiveness, scope and dedication to the objectives of adult education.

- The School of Medicine's Continuing Medical Education Program was reaccredited for the maximum six-year term by the National Accrediting Council of Continuing Medical Education.

- Both the division of cytotechnology and the division of radiologic science successfully underwent reaccreditation visits from their respective organizations.

- Students from the division of medical technology claimed the North Carolina Society of Medical Technology Student Bowl Championship for the second year in a row, and 100 percent of last year's class passed the National Registry Examination.

- The school received an unexpected announcement from the Charles E Culpeper Foundation that we are one of only three medical

Honor roll of Contributors

During 1983-84, the number of alumni contributing to the School of Medicine increased by 52 percent. For the year, 1,237 alumni gave $279,787. Alumni and friends who supported the school through the Loyalty Fund, the Co-Founders and special contributions are listed on the following pages. Every effort has been made to ensure accuracy. If errors or omissions have occurred, the editors apologize in advance.

The Loyalty Fund

The Loyalty Fund is the sole means of support of the Medical Alumni Association. Contributors to the Loyalty Fund provide unrestricted funds for student scholarships and programs, publication of the Medical Alumni Bulletin and Times, and association activities such as Medical Alumni Weekend. This past year, the following people gave a total of $70,918—a 27 percent increase over 1982-83—to the Loyalty Fund:

Class of 1917

Frank B. Marsh, Salisbury

Class of 1919

Kenneth B. Geddie, High Point

Class of 1921

D. Greenlee Caldwell, Concord

Class of 1922

Paul T. Martin, San Jose

Class of 1925

Donald P. Ross, Tequesta, Fla.
(in memory of Thomas W. Ross '25)
James H. Wall, White Plains, N.Y.

institutions selected to receive a program of Charles E. Culpeper Fellowships. The program will begin July 1, 1985 and continue for four years. It will provide 12 fellowships funded up to $30,000 each which can be used to support medical students, postgraduate students or faculty for one to two years of research, teaching or clinical care in underdeveloped areas in this country or abroad.

- The dean and five other members of the medical school faculty and staff worked with journalism school faculty in the spring semester to teach a journalism course on medical writing. The course was designed to present the different perspectives of physicians, scientists, journalists and the general public with respect to medical reporting. The course is expected to be offered again next spring semester.

Research accomplishments

- The school continues to attract substantial and increasing support from outside sources:

Federal grants and contracts	$33,732,765
Gifts & non-government grants	6,989,191
Scholarships and loans	2,317,368
	$43,039,324

- The NIH analysis of grants awarded to medical schools shows that our approval rate was 95.6 percent which ranked us third in the nation. Also, our average priority score on funded proposals was 154.3 which ranked ninth.

- Increasing relationships are developing with industry. For example, current collaborations with Burroughs Wellcome Co. involve 23 collaborative research studies and six collaborative clinical studies.

- Researchers began developing a new technology to study the dynamic behavior of individual parts of single living cells. The technology, ultra low light level digitized video microscopy, will allow cell biologists to study the basic biological processes of living cells. Developing a facility for the technology here are Drs. Brian Herman and Ken Jacobson, assistant and associate professors, respectively, of anatomy.

- A new electron microscope, one of the most powerful instruments of its kind, was activated in the department of anatomy.

- New flow cytometry equipment makes it possible for medical researchers to analyze 5,000 cells per second and store the data for future analysis.

- Two unique strains of mice were developed at the School of Medicine to help researchers track down the cause of infantile polycystic kidney disease. The genetically transmitted disease affects between one in 6,000 and one in 14,000 babies, most of whom die within their first year.

Class of 1926

Forest M. Houser, Cherryville
Jefferson A. Jones, Swarthmore, Penn.

Class of 1927

John S. Rhodes, Raleigh

Class of 1928

James F. Crumpler Sr., Rocky Mount
Charles W. Robinson Jr., Charlotte
(in memory of R.E. Nichols Jr. '28)
S. Glenn Wilson Sr., Angier

Class of 1929

Vance T. Alexander, Ridgewood, N.J.
A.C. Dick, Chestertown, Md.
Harry L. Farrell, Philadelphia
David A. Young, Raleigh

Class of 1930

Hubert L. Clapp, Swannanoa
Charles P. Graham, Wilmington
Arthur A. James Jr., Sanford
Rufus R. Little, Ho Ho Kus, N.J.
Augustus S. Rose, Beverly Hills

Class of 1931

Louis Appel, Orlando
Ralph B. Garrison, Hamlet
Henry C. Harrill, Greensboro
Jean C. McAlister, Greensboro
Lewis M. McKee, Durham
William S. Wall, Rocky Mount
James A. Whitaker, Rocky Mount

Class of 1932

David L. Avner, Greensboro, Penn.
Jefferson Davis, Myrtle Beach
John H. Dougherty Sr., Fairfield Glade, Tenn.
Howard Q.L. Little, Gibsonville
George P. Rosemond, Philadelphia
Curtis G. Southard, Bethesda, Md.
Robert E. Stone, Evanston, Ill.
Thomas J. Taylor, Roanoke Rapids

Class of 1933

Joseph R. Strauss, Port Washington, N.Y.

Class of 1934

Archie L. Barringer, Mt. Pleasant
Frances E. Brennecke, Rockville, Md.
June U. Gunter, Durham

- A $229,000 grant was received from the National Institutes of Health Shared Instrument Program to be used toward the purchase of a high brilliance rotating anode X-ray generator and an area detector for recording X-ray diffraction patterns. This is the first pairing of these particular machines, which work together to provide three-dimensional glimpses of the inner workings of molecules. They form within the School of Medicine a cornerstone for a regional research center, which will be a major new resource for the growing programs in molecular biology and biotechnology in this area.

- A five-year grant renewal of nearly $2 million from the National Institutes of Health was received to help support the continuing research for eight faculty members in five separate but related projects dealing with blood clotting factors.

- Seven investigators, under the direction of Dr. P. Frederick Sparling, professor and chair of microbiology, began a five-year study of the transmission and effects of gonorrhea and the possible relationship of cytomegalovirus to acquired immunodeficiency syndrome (AIDS), with the support of a $1.6 million grant from the National Institute of Allergy and Infectious Diseases.

- A team of researchers studying growth hormone received an award of $700,000 from the National Institute of Arthritis, Diabetes, Digestive and Kidney Diseases to continue their research through its 31st year of continuous funding by this agency. The team is led by Dr. Judson J. Van Wyk, Kenan professor of pediatrics.

- Psychologists in the School of Medicine received a $232,000 grant from the National Heart, Lung and Blood Institute to study responses to stressful situations in natural settings. By comparing findings to reactions to stress artificially created in a laboratory, the researchers hope to determine the credibility of laboratory information. Dr. Paul Obrist, professor of psychiatry, is conducting the study with Dr. Kathleen C. Light, assistant professor, and Dr. Sherman James of the School of Public Health.

- Dr. Nancy Raab-Traub, a researcher in the Cancer Research Center, began a study of the role of Epstein-Barr virus in nasopharyngeal carcinoma, a cancer that occurs in the back of the throat. The project received $211,400 from the National Cancer Institute.

- Dr. Jean M. Lauder, associate protessor of anatomy, reported research results that suggest that drugs, stress and environmental influences may have adverse effects on human brain formation during the first few months of pregnancy and possibly throughout the entire period of brain development.

- Construction of the Lineberger Cancer Research Center building was completed. Faculty and staff moved in and the facility was formally dedicated. Dr. William Hubbard ('43), president of the Upjohn Company, was the keynote speaker at the dedication ceremony. Funding for the $8.4 million, 35,000 square foot building, included a $1.37 million grant from the National Cancer Institute, $3.2 million from institutional funds and $3.83 million from private donations. The building is named in honor of the Lineberger family of Belmont, long-time supporters of the University and the School of Medicine.

Seny B. Lake, Canterbury, N.H.
Willis B. Mitchell, Hendersonville
Carl Pigman, Whitesburg, Ky.
Thomas C. Worth, Raleigh

Class of 1935

Frederick D. Austin Jr., Paducah, Ky.
Thomas A. Henson, Greensboro (deceased)
Fred G. Patterson, Chapel Hill (deceased)
Henry Mack Pickard, Wilmington
Murdo E. Street Jr., Glendon

Class of 1936

Samuel B. Balis, Maplewood, N.J.
Sherwood W. Barefoot, Greensboro
Leo Esbin, Wantagh, Long Island, N.Y.
Landis P. Mitchell Jr., Spindale
Otto S. Steinreich, Akron
Annie L. Wilkerson, Raleigh

Class of 1937

Jules B. Aaron, Lighthouse Point, Fla.
Elizabeth J. Dotterer, Sanford
Robert L. Norment, Arlington
Charles W. Sensenbach, Oak Ridge, Tenn.
W.A. VanNortwick, Jacksonville, Fla.

Class of 1938

Olivia Abernethy, Greensboro
Thomas W. Crowell, Bellingham, Wash.
Evelyn P. Ivey-Davis, Wilmington, Del.
Robert B. Lindsay, Chapel Hill

Class of 1939

Jesse Appel, Kew Gardens, N.Y.
Max M. Novich, Perth Amboy, N.J.
Pearl H. Scholz, Baltimore
Mack Simmons, Waverly, Ga.

Class of 1940

Phil L. Barringer, Monroe
Inez W. Elrod, Huntersville
Henry C. Guynes, Rockwall, Tex
Lawrence E. Metcalt, Asheville
French H. McCain, Bloomfield Hills, Mich
Joseph William Kahn, Franklin
John H. E. Woltz, Charlotte

Class of 1941

Jack Hughes, Durham
James W. McLean, Fayetteville
Frederick L. Tunick, Far Rockaway Park, N.Y.
Bailey Webb, Ph.D., Durham

- A program to detect problem pregnancies through a blood test—the largest of its kind in the nation— received increased state funding and expanded into additional counties. The program, directed by Dr. John W. Seeds, assistant professor of obstetrics and gynecology, is conducted by the division of maternal and fetal medicine and colleagues at the Bowman Gray School of Medicine.

- Dermatologists conducted successful trials of bleomycin, an anti-cancer drug, treating patients with previously untreatable warts. Physicians treated 40 patients with a total of 151 warts and destroyed 81 percent of the warts with only one or two injections of the drug, according to Dr. Edward J. O'Keefe, associate professor of dermatology.

- A three-year cancer control study was completed by the Cancer Research Center and N.C. AHEC physicians and staff. The study, funded by the National Cancer Institute, provided feedback to physicians caring for female cancer patients in North Carolina. Researchers hope the feedback will improve diagnosis and treatment of cancer patients across the state.

- The North Carolina General Assembly appropriated $1.8 million for the purchase of a nuclear magnetic resonance instrument for the cancer center. The imaging device will be used for cancer diagnosis.

- Trauma specialists, directed by Dr. Herbert J. Proctor, professor of surgery, tested a niroscope, an experimental instrument which uses infrared light to measure oxygen in the brain non-invasively.

- The first baby conceived by *in vitro* fertilization in the state of North Carolina was born Oct. 20 in Virginia. The "test tube" pregnancy had been achieved at North Carolina Memorial Hospital.

Key appointments and reappointments

- Dr. Robert W. Vaughan, former professor of anesthesiology at the University of Arizona College of Medicine, was named chair of the department of anesthesiology.

- Dr. George F. Sheldon, former professor of surgery at the University of California, San Francisco, was named chair of surgery.

- Dr. William E. Easterling Jr. ('56) was reappointed associate dean for clinical affairs and chief of the medical staff.

- Dr. Arthur J. Prange Jr., professor, was named acting chair of psychiatry.

- Dr. Mary Ellen Jones, Kenan professor, was reappointed chair of the department of biochemistry and nutrition.

- Dr. Joe Wheeler Grisham, professor of pathology and medicine, was reappointed chair of pathology.

- Dr. Pierre Morell, professor of biochemistry, was reappointed director of the Curriculum in Neurobiology.

Class of 1942

F.A. Blount, Winston-Salem
O. Watts Booth, Newport News, Va.
William E. Hoy Jr., Ashland, Ky.
James D. Piver, Jacksonville
R. Bertram Williams Jr., Wilmington

Class of 1943

March

Julian T. Brantley, Greensboro
David S. Citron, Matthews
James R. Collett, Morganton
James B. Greenwood Jr., Charlotte
William N. Hubbard Jr., Kalamazoo
William F. Hutson, Northbrook, Ill.
Sarah T. Morrow, Raleigh
Robert M. Packer Jr., Waycross, Ga.
John H. Reed, Gainesville, Ga.
Frank B. Reynolds, Wilmington

Class of 1943

December

C. Fletcher Bailey, Elizabeth City
Hilda H. Bailey, Salisbury
Douglas H. Clark, Lumberton
Robert W. Elwell, Ocean City, N.J.
George B. Johnston, Asheboro
William H. Meroney III, Portsmouth, R.
Henry C. Newsome Jr., Pilot Mountain (deceased)
S. Malone Parham Sr., Henderson
Herbert W. Park, Richmond, Va.
J. Taylor Vernon, Morganton

Class of 1944

J. Vincent Arey, Concord
Earl E. Correll, Kannapolis
J. Stuart Gaul Jr., Charlotte (in memory of J.P. Richardson and George C. Blanchard)
Allen H. Lee, Selma
Carroll H. Lippard, Lynchburg, Va.
George D. Penick, Iowa City
Margaret C. Swanton, Clinton
Charles W. Tillett, Charlotte
Edwin J. Wells, Wilmington

Class of 1945

G. Walker Blair Jr., Burlington
G. R. Clutts, Greensboro
J. Hicks Corey Jr., Chattanooga
Courtney D. Egerton, Raleigh
Robert G. Fitzgerald Jr., Roxboro
Weldon H. Jordan, Fayetteville
John H. Monroe, Winston-Salem
John R. Pender III, Charlotte
Dean F. Winn, Woodland, Calif.

Patient care

- North Carolina Memorial Hospital received the maximum three-year accreditation of the Joint Commission on Accreditation of Hospitals.
- The North Carolina Area Health Education Centers (AHEC) Program received $135,000 from the federal government for special projects aimed at meeting changing health care needs and linking libraries and health professionals through a statewide computer network.
- Construction began on a new Critical Care Center for N.C. Memorial Hospital. The new facility will consolidate the hospital's adult critical care units, providing more space which will facilitate patient care and teaching.
- Physicians began testing a cancer treatment in which tumor tissue is heated by microwaves to reduce their size and make the patient more comfortable. The treatment, hyperthermia, showed promise in early trials in Chapel Hill, according to Dr. Edward Chaney, associate professor of radiation therapy.
- N.C. Memorial Hospital began providing a new type of surgery for prostate cancer which involves complete removal of the prostate but shows promise for preserving sexual function. The operation is being performed by Dr. Robert M. Weissman, assistant professor of surgery.
- The medical center's first set of quadruplets was delivered in April by Dr. John Seeds. The babies were seven and half weeks premature, but all were healthy enough to go home within a month of their birth.
- A 38-year-old diabetic patient from Spartanburg, S.C., was the 200th patient to receive a kidney transplant here since Dr. Stanley Mandel, professor of surgery, began a formal transplant program in 1969.
- Dr. George F. Sheldon, chair of surgery, was named the first recipient of the Dr. Zack Owens Distinguished Professorship of Surgery. The professorship was established by Dr. Zack D. Owens ('28), of Elizabeth City, an alumnus of the School of Medicine.
- Dr. Floyd A. Fried was named the first recipient of the Doctors John Sloan Rhodes ('27) and John Flint Rhodes ('62) Distinguished Professorship in Urology. The professorship was established by a father and son physician team from Raleigh, both of whom are UNC-CH alumni.
- Dr. Clyde A. Hutchison III was named Kenan professor of microbiology and immunology.
- Dr. Arthur J. Prange was named Boshamer professor of psychiatry.
- Dr. Richard V. Wolfenden was named alumni distinguished professor of biochemistry and nutrition.
- Dr. Mary Ellen Jones, Kenan professor and chair of biochemistry and nutrition, was elected to the National Academy of Sciences.

Class of 1946

Julius Amer, Denver
Walter C. Barnes, Texarkana, Texas
Robert V. Dutton, Houston
Mary Alice V. Fox, Bethesda, Md.
William H. Grey, Staunton, Va.
Robert S. Lackey, Charlotte
Roland D. Matthews, Burlington
J. Edward McKinney, Chattanooga
William G. Santord, Winston-Salem
Peter S. Scott, Burlington
William E. Sheely, Alexandria, Va.
H. Frank Starr Jr., Greensboro
Allen D. Tate Jr., Burlington
John E. Weyher, Goldsboro

Class of 1947

J. Lloyd Pate, Fairmont
C. Roy Rowe, Statesville
Harry G. Walker, Statesville

Class of 1948

Verna Y. Barefoot, New Bern
Fred W. Ellis, Chapel Hill
James H. Galloway Jr., Raleigh
Tyndall P. Harris, Chapel Hill
Julius A. Mackie Jr., Bryn Mawr, Pa.
Eugene V. Maynard, Goldsboro
W. Ernest Powell, Mars Hill
Shirley L. Rivers, Tucson, Ariz.

Class of 1949

J. Dewey Dorsett Jr., Charlotte
F. Sidney Gardner Jr., Fayetteville
Robert A. Griffin, Asheville
C. Ted Harris, Charlotte
Spinks H. Marsh, Punta Gorda, Fla.
Charles F. Melchor, Bloomington, Ill.
Edwin W. Monroe, Greenville
Rose Pulley, Kinston
Aubrey D. Richardson, Baltimore
Maxine Dark Wallace, Oakland, Calif.

Class of 1950

Gertrude Bales, Rochester, N.Y.
Frederick O. Bowman Jr., Florence, S.C.
W. Grimes Byerly Jr., Hickory
Jack O. Carson, Grifton
David E. Graham, Matthews
Buel K. Grow Jr., Belle Mead, N.J.
I. B. Hardison, Fayetteville
Joel B. Huneycutt, Rock Hill, S.C.
Harold H. Jeter Jr., Florence, S.C.
Benjamin H. Josephson, Basking Ridge, N.J.
William S. Joyner, Chapel Hill
John A. Kirkland, Wilson
John L. McCain, Wilson
Agnes T. Milan, Morganton
Glenn D. Moak, Indianapolis
James H. Peedin Jr., Burgaw

- Dr. Morris A. Lipton, Sarah Graham Kenan professor of psychiatry, was reappointed director of the Biological Sciences Research Center.
- Dr. Mario Perez-Reyes, associate professor of psychiatry, was named acting director of the Center for Alcohol Studies.
- Dr. Kenneth F. Bott, professor of microbiology, was named co-director of the Genetics Curriculum.
- Dr. Mary Hammond, assistant professor of obstetrics and gynecology, was named chief of the division of reproductive endocrinology.
- Dr. Robert B. Mahaffey, associate professor of medical allied health professions, was appointed director of the division of speech and hearing.
- Dr. H. C. Pillsbury, associate professor of surgery, was named chief of the division of otolaryngology.

Faculty recognition

- Dr. James A. Bryan II, professor of medicine and social and administrative medicine and associate professor of family medicine, was honored by the UNC Board of Governors as one of two recipients of the 1984 O. Max Gardner Award.
- Drs. Janet and Newton D. Fischer shared the University's 1984 Thomas Jefferson Award.
- Former Deans Isaac M. Taylor and Christopher C. Fordham III ('49) were honored at a portrait unveiling in the Morehead Building during medical alumni fall weekend.
- Dr. Colin G. Thomas Jr., Doxey professor and former chair of surgery, received the Medical Alumni Association's Distinguished Faculty Award.

Drs. Janet and Newton Fischer.

J. Olin Perritt Jr., Wilmington
Eugene B. Sharpe, Asheville
B. C. Troutman, Grifton
John L. Watters, Raleigh

Class of 1951

Luther L. Anthony Jr., Gastonia
Roy J. Blackley, Raleigh
Matt C. Harper Jr., Goldsboro
John F. R. Kuck, Ph.D., Atlanta
D. Hilton Seals, Asheville
Jack W. Wilkerson, Greenville

Class of 1952

Charles H. Powell, South Daytona, Fla.
Richard I. Walker, Chapel Hill

Class of 1953

M. K. Berkut, Ph.D., Chapel Hill

Class of 1954

Leon Cowan, Wilson
A. Joseph Diab, Raleigh
C. B. Fulghum, Atlanta
J. Franklin Graves, Mt. Pleasant
James C. Parke Jr., Charlotte
Cornelius T. Partrick, Washington
Thomas H. Patterson Jr., Farmville
Ely Perry, Kinston
Clifton L. Quinn, Raleigh
William H. Weinel Jr., Wilmington
Edward S. Williams Jr., Durham

Class of 1955

Julian S. Albergotti Jr., Charlotte
Ralph E. Brooks Jr., High Point
E. Ted Chandler, Mars Hill
Griggs C. Dickson, Charlotte
Ira D. Godwin, Fairfax, Va.
William D. Huffines, Chapel Hill
R. C. Jordan Jr., Sanford
William L. London, Durham
Lloyd C. McCaskill, Maxton
J. Thaddeus Monroe Jr., Chapel Hill
Thomas P. Moore, Jacksonville
O. F. Roddey Jr., Charlotte
Palmer F. Shelburne, Greensboro
Henry L. Stephenson Jr., Washington
G. Reginald Tucker Jr., Henderson
W. Wallace White, Cincinnati

Class of 1956

John R. Baggett III, New Bern
Lee A. Clark Jr., Wilson
John W. Deyton, Jacksonville
William E. Easterling Jr., Chapel Hill
Charles W. Fowler III, Orlando
Alex F. Goley, Burlington
Francis W. Green, Albermarle

- Dr. David A. Young ('29), clinical professor of psychiatry, was one of the recipients of the Distinguished Service Award.

- Dr. Robert C. Cefalo, professor of obstetrics and gynecology, was elected an honorary fellow in the American Academy of Pediatrics for "efforts in improving the health and welfare of children."

- Betty Baines Compton, clinical assistant professor of pediatrics, was selected as one of 17 outstanding American women to receive an award from the Wonder Woman Foundation.

- Dr. Sue E. Estroff, assistant professor of social and administrative medicine, received the Margaret Mead Award from the Society for Applied Anthropology and the American Anthropological Association.

- Dr. John J. Frey, associate professor of family medicine, received a grant from the W. K. Kellogg Foundation's National Fellowship Program for Outstanding American Professionals.

- Dr. John B. Graham ('40), alumni distinguished professor of pathology, was awarded an honorary Doctor of Science by Davidson College.

- Dr. James N. Hayward, H. Houston Merritt distinguished professor and chair of neurology, received a special neuroscience research award honoring former Senator Jacob Javits. The seven-year, $862,472 award from the National Institute of Neurological and Communicative Disorders and Strokes will help fund Hayward's continuing research.

- Dr. Morris Lipton, Kenan professor of psychiatry and biochemistry, was named winner of the University of Chicago's Distinguished Scientific Service Award.

- The department of pharmacology library was named in honor of Dr. Paul L. Munson, Sarah Graham Kenan professor emeritus of pharmacology and endocrinology and former department chair.

- Charlene M. Nelson associate professor of medical allied health professions, received the 1983 Lucy Blair Service Award of the American Physical Therapy Association.

- Dr. Eugene Orringer, associate professor of medicine, was appointed to the Sickle Cell Advisory Committee of the National Institutes of Health.

- Dr. Harold Roberts ('55), professor of medicine, received the Achievement in Hemostasis Award of the International Congress on Thrombosis and Hemostasis.

- Dr. Edward J. Shahady, professor and chair of family medicine, was honored for outstanding service by the Society of Teachers of Family Medicine.

- Dr. David Siscovick, assistant professor of medicine, received a three-year, $48,000 American College of Physicians Teaching and Research Scholar Award.

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P. Burt Veazey, Sarasota, Fla.

- The Leukemia Society of America awarded a five-year, $135,000 scholarship to Dr. Michael D. Topal, assistant professor of pathology.

International activities

- The School of Medicine's Program for International Training in Health (INTRAH) completed its fifth year of providing health manpower development assistance to African and Middle Eastern countries. During the past year, eight University faculty members and one recent medical graduate provided training, management, evaluation and education materials consultation to developing country government agencies and universities. Since 1979, more than 25,000 health personnel have been trained under INTRAH auspices.

- The School of Medicine's Office of International Affairs provides coordination and facilitation of the international interests of medical faculty and students. This year, the office has assisted in the establishment of institutional linkage agreements with the University of Paris and Ben Gurion University in Israel, and is coordinating the first phase of a cooperative project with WHO for international health manpower studies.

And more

- At its spring meeting, the faculty approved a new statement of institutional purpose, crafted by the medical school's planning committee.

- Fifteen faculty members gave presentations during five different community programs sponsored by Project Good Life, the medical center's health enhancement program. Total attendance was 225. For the second year, medical students conducted the STEP—Students Teaching Early Prevention— program to all seventh graders in the Chapel Hill-Carrboro schools. STEP focuses on causes and prevention of atherosclerosis.

- The division of laboratory medicine of the department of pathology celebrated its 10th anniversary.

- Nobel Laureate Sir Peter Medawar presented the second annual Spicer-Breckenridge Memorial Lecture to overflow crowds.

- Dr. Vivian W. Pinn, professor and chair of the department of pathology at the Howard University College of Medicine, delivered the fourth annual Lawrence Zollicoffer Lecture.

- Dr. Eugene Braunwald, professor of medicine at Harvard Medical School, presented the 1984 Distinguished Lecture in Medical Sciences.

- School of Medicine alumnus Dr. William Thornton ('63) became North Carolina's first native son in space. Thornton, a member of the crew for the third flight of the space shuttle Challenger, was a featured speaker here during Medical Alumni Weekend.

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Special project

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During this past year, the medical class of '72 surpassed its goal for Class of 1972 scholarship. The first scholarship was awarded this fall. Because this year's contributions brought the scholarship fund into fruition, contributors are listed under this special heading.

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Dr. Brian Herman (right) and Dr. Ken Jacobson of the department of anatomy are developing a new technology to study the dynamic behavior of individual parts of single living cells. An increased understanding of the inner workings of cells can be invaluable in determining how these processes become altered in certain diseases. Here, the medical researchers discuss equipment modifications which will be necessary to construct facilities for the new technology, called digitized video microscopy.

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Dr. and Mrs. M. Fausch, Charlotte, Grafton C. Fanney, '45, Euclid, Ohio, Dr. and Mrs. John Farrington, '57, High Point, William R. Ferguson, '73, Albany, Ore., F. Finger, Bowling Green, Ky., Dr. and Mrs. Otis Fisher, '59, Greensboro, Dr. and Mrs. William Flythe, '31, High Point, Dr. and Mrs. A. Fortney, Jamestown, and Dr. and Mrs. Richard Freeman, '70, Auburn, Ala.

Dr. and Mrs. J. Stuart Gaul, '44, Charlotte, Dr. and Mrs. Charles H. Gay, '31, Charlotte, Dr. and Mrs. Charles F. Gilbert, '59, Greenville, Dr. and Mrs. A. Gill, High Point, Dr. and Mrs. J. Eugene Glenn, '55, Jacksonville, Fla., Mrs. Franklin M. Grady, New Bern, Dr. and Mrs. Charles P. Graham, '65, Topeka, Kan., Dr. and Mrs. C. Gray, High Point, Dr. and Mrs. Robert L. Green, '59, Winston-Salem, Stephen L. Green, '70, Hampton, Va., Dr. and Mrs. James B. Greenwood, 3-'43, Charlotte, Dr. and Mrs. Donald Gregg, '75, Greenville, S.C.,

G. K. Gupta, HS '75, Goldsboro, and J. D. Gupta, Goldsboro.

L. H. Hanrahan Jr., Greenville, Dr. and Mrs. Falls Harris, '60, Greenville, S.C., Dr. and Mrs. O. James Hart, '59, Winston-Salem, Dr. and Mrs. Edward Haselden, '69, Columbia, S.C., Dr. and Mrs. James H. Hawkins, '44, Graham, Dr. and Mrs. Stephen Hawkins, '74, Chattanooga, Dr. and Mrs. Chester Haworth, HS '71, High Point, Dr. and Mrs. Thomas Henson, '35, Greensboro, Dr. and Mrs. Charles L. Herring, '55, Kinston, Dr. and Mrs. Donald D. Howe, '70, Gastonia, Dr. and Mrs. Hampton Hubbard, '45, Clinton, and Dr. and Mrs. S. Vance Huffman, '51, Elon College.

Elizabeth Jackson, '73, Cumberland, Md., F. Daniel Jackson, '73, Cumberland, Md., Dr. and Mrs. G. Daniel Jacobs, '76, Gastonia, Dr. and Mrs. Henry Jefferson, '77, High Point, Dr. and Mrs. G. Jeong, Chattanooga, Dr. and Mrs. Luther W. Kelly, '46, Charlotte, Dr. and Mrs. Michael B. King, '71, Kinston, Dr. and Mrs. Jack Koontz, '64, Greenville, Dr. and Mrs. Howard S. Kroop, '72, Woodbury, N.J., and E. S. Kurtz, Lansing.

Dr. and Mrs. Robert S. Lackey, '46, Charlotte, Roy V. Land, '66, Annapolis, Md., Thomas Lauer, '78, High Point, Dr. and Mrs. Frank Leak, '67, Clinton, Dr. and Mrs. D. H. Lee, Burlington, Mrs. T. Leslie Lea, Charlotte, Dr. and Mrs. Robert H. Lester, '75, Gastonia, Dr. and Mrs. Clifford Lewis, '67, Wilmington, Dr. and Mrs. Howard Little, '32, Gibsonville, Dr. and Mrs. Wilfred Little, '59, Tampa, Fla., Dr. and Mrs. Carroll Lupton, '30, Greensboro, and Dr. and Mrs. John Lyday, '48, Greensboro.

Mrs. Donald M. MacQueen, Wilmington, Dr. and Mrs. Jefferys A. Macfie, '64, Greenville, S.C., Dr. and Mrs. K. Maness, Greensboro, Dr. and Mrs. Rubin Maness, '76, Goldsboro, Dr. and Mrs. Jeffrey Margulis, '78, Clinton, Dr. and Mrs. John J. Marks, '79, Jacksonville, Fla., Dr. and Mrs. R. Gale Martin, '68, Southern Pines, Ronald L. Mauldin, '64, Gainesville, Fla., Frankye K. McAdam, Yorktown, Va., Dr. and Mrs. Edgar McGee, '66, Lexington, Ky., Dr. and Mrs. Murphy F. McGirt, '64, Kinston, Dr. and Mrs. Joseph McLamb, '67, Goldsboro, Dr. and Mrs. Jonathan O. McLean, '71, Charlotte, Dr. and Mrs. William Michael, '60, High Point, Dr. and Mrs. S. Miller, Roxboro, Dr. and Mrs. Rudolph Mintz, '67, Kinston, Dr. and Mrs. William Monroe, '64, Greenville, Dr. and Mrs. Seymour Morse, '40, Jacksonville, Fla., Dr. and Mrs. Robert L. Murray, '56, Roanoke, Va., and Dr. and Mrs. Dan A. Myers, '75, Kinston.

Dr. and Mrs. T. Nagendran, HS '71, High Point, Dr. and Mrs. Ronald Neal, '74, Greensboro, Dr. and Mrs. Henry N. Nelson Jr., '75, Melbourne, Fla., Dr. and Mrs. William K. Nelson, '70, Winston-Salem, Dr. and Mrs. Frederick S. Neuer, '71, Emporia, Kan., Dr. and Mrs. A. Ray Newsome, '61, Winston-Salem, Dr. and Mrs. Baxter G. Noble, '42, Kinston, Dr. and Mrs. Sylvanus Nye, HS '60, Kinston, Dr. and Mrs. Harold B. Owens, '67, Mountain Brook, Ala., and Dr. and Mrs. William Owens, '61, Clinton.

Dr. and Mrs. H. Richard Parker, '67, Greensboro, Dr. and Mrs. Samuel L. Parker, '40, Kinston, Dr. and Mrs. Talbert Parker, HS '56, Goldsboro, Dr. and Mrs. D. R. Parkinson, Greenville, S.C., Dr. and Mrs. Eugene W. Pate Jr., '63, Kinston, Dr. and Mrs. Louie Patseavouras, '61, Greensboro, Robert B. Pennington, '49, Middletown, Conn., Dr. and Mrs. C. A. P. Peters, '79, Cogan Station, Pa., Dr. and Mrs. Charles Phillips, '58, Gibsonville, Dr. and Mrs. F. Pooser, Melbourne, Fla., Dr. and Mrs. Jan H. Postma Jr., '74, Spartanburg, S.C., Dr. and Mrs. Thomas W. Powell, '74, Concord, and Dr. and Mrs. Douglas Privette, '76, Greenville.

Dr. and Mrs. I. R. Rao, Charlotte, Dr. and Mrs. Alton Reeder, '62, High Point, Dr. and Mrs. James Richards, '56, Orlando, Fla., Lambros Rigas, '62, Rome, Ga., Dr. and Mrs. B. A. Rimer, '57, Charlotte, Dr. and Mrs. Douglas Ritch, '63, Charlotte, Dr. and Mrs. V. O. Roberson, '71, High Point, Dr. and Mrs. Charles W. Robinson, '60, Charlotte, Dr. and Mrs. David Rockwell, '74, Goldsboro, Dr. and Mrs. Albert L. Roper, '67, Norfolk, Dr. and Mrs. William D. Routh, '76, Roanoke, Va., Dr. and Mrs. W. Russell Rowland, '59, Greenville, S.C., and Dr. and Mrs. David Rubin, '68, Greensboro.

W. Paul Sawyer, '75, Tallahassee, Dr. and Mrs. F. Scharf, Goldsboro, Dr. and Mrs. Samuel F. Scott, '63, Burlington, Samuel T. Selden, '77, Chesapeake, Va., William E. Sheely, '46, Alexandria, Va., Mrs. Henry C. Sikes, Greensboro, Dr. and Mrs. David Sillmon, '63, Greensboro, Blair M. Sloan, Wilmington, Dr. and Mrs. James B. Sloan, '70, Wilmington, James Smith, '62, West Palm Beach, Fla., Dr. and Mrs. N. Smith, Greensboro, J. L. Sokal Jr., Durham, Dr. and Mrs. Ernest Spangler, HS '59, Greensboro, T. N. Spencer, Everett, Wash., Dr. and Mrs. Willie Stafford, '56, Greensboro, Michael A. Stang, '75, Pikesville, Md., Dr. and Mrs. E. Walker Stevens, '66, Greensboro, Susan Stewart, Wilmington, Dr. and Mrs. Grady Stone, '75, High Point, David G. Stroup, '46, East Point, Ga., Dr. and Mrs. B. Sumpio, Clinton, Dr. and Mrs. John Surratt, '71, Clinton, and Dr. and Mrs. H. G. Sutton, Winston-Salem.

Dr. and Mrs. Richard C. Taft, '72, Greenville, Dr. and Mrs. R. Tamisiea, Wilmington, David T. Taylor, DSA '84, Washington, Dr. and Mrs. David Taylor, '74, Goldsboro, Dr. and Mrs. J. Taylor Jr., High Point, Dr. and Mrs. William H. Taylor, '63, Rockledge, Fla., Dr. and Mrs. William S. Teachey, '68, Virginia Beach, Mrs. R. Henry Temple, Kinston, Colin G. Thomas, Chapel Hill, Dr. and Mrs. Henry Thomas, '66, Gastonia, Dr. and Mrs. Henry C. Thomason, '67, Gastonia, Marguerite E. Tracy, Charlotte, Dr. and Mrs. Belk C. Troutman, '50, Gritton, Dr. and Mrs. H. Durwood Tyndall, '54, Goldsboro, Paul A. Vadnais, '79, Ocean Springs, Miss., Dr. and Mrs. J. M. Van Hoy, Charlotte, and Dr. and Mrs. P. Burt Veazey, '60, Sarasota, Fla.

Dr. and Mrs. Jack Wall, '68, Burlington, Dr. and Mrs. J. M. Watson, Elizabeth City, Dr. and Mrs. William Weatherly, '70, Greensboro, Anita P. Weaver, Fayetteville, Dr. and Mrs. Jack H. Welch, '63, Greenville, Anita S. Westafer, '79, Pensacola, Fla., John Westafer, '79, Pensacola, Fla., Dr. and Mrs. John Weyher, '46, Goldsboro, Dr. and Mrs. Thomas E. Whitaker, '46, Greenville, S.C., Dr. and Mrs. James White, '63, Ormand Beach, Fla., Dr. and Mrs. Steven M. White, HS '67, Greenville, Dr. and Mrs. Robert Whitener, HS '58, Greensboro, Dr. and Mrs. Kenneth Wilkins, 3-'43, Goldsboro, Dr. and Mrs. James L. Williams, '64, Spokane, Wash., Dr. and Mrs. S. Kendall Willis, '50, Mt. Holly, Dr. and Mrs. Charles F. Willson, HS '80, Greenville, Dr. and Mrs. M. Willson, Great Falls, Mont., Roger M. Winborne, '46, Roanoke, Va., Mrs. Harry Winkler, Charlotte, Dr. and Mrs. John I. Winstead, '22, Greenville, and Dr. and Mrs. Thomas R. Wynne, '59, Greenville, S.C.

Dr. and Mrs. John A. Young, '60, Charlotte, and Dr. and Mrs. P. Young, Greensboro, Also, Internal Medicine Associates, Roanoke, Va., University of South Carolina School of Medicine, Columbia, S.C., Women's Auxiliary of Buncombe County, Women's Auxiliary of Chapel Hill, and Women's Auxiliary of Rowan County

Class notes

Gregory Strayhorn, M.D. '77, has been named assistant dean for academic affairs at the UNC-CH School of Medicine. His appointment was announced by Dean Stuart Bondurant.

An assistant professor of family medicine, Strayhorn earned a B.S. and a master of public health degree from the University. He is completing requirements for a Ph.D. in epidemiology.

He completed his residency at the University of Iowa Hospitals and Clinic and returned to Chapel Hill in 1981 as a Robert Wood Johnson Clinical Scholar and instructor in family medicine.

As assistant dean for academic affairs, Strayhorn will be responsible for developing and coordinating programs for students with special academic needs. Strayhorn will report to Dr. William D. Mattern, associate dean for academic affairs.

Strayhorn also will work with various medical school programs that assure a substantial presence in the medical school of students who are traditionally under-represented in the medical profession.

Manning-Berryhill Club

William E. 'Bill' Rabil, C. Med. '44, of Winston-Salem has been on the road, travelling through the United States, Canada, Mexico, Israel and Europe. He was a lecturer on the "Shroud of Turin" for 29 years and visited more than 450 churches. He enjoys gardening (flower-azaleas and English box woods), and golf. He and wife Rosalie, have five children.

Margaret C. Swanton, C. Med. '44, of Clinton is director of Laboratories at Sampson County Hospital since retiring from the UNC-CH faculty in 1978. When she retires again, she is planning to take up art and hand crafts, long time interests which were cultivated many years ago. She is involved with alumni affairs at UNC and the Presbyterian church activities.

Charles Tillett, C. Med. '44, of Charlotte is still in active practice and is building an ophthalmology outpatient eye surgery facility adjoining his office. He and his wife Grace have three children.

50s

Sara L. Hoyt, M.D. '54, is practicing pediatrics part-time in Rome, Ga., and devoting part of her spare time to water color painting. She tells us her daughter Harriette is a senior at UNC.

Robert S. Jones, M.D. '54, of Shelby has been joined in his practice by his son Robert Jr. His son Steven is a medical student now at the East Carolina University School of Medicine. Jones is in the practice of family medicine.

Clifton L. Quinn, M.D. '54, of Raleigh has spent a significant amount of time over the past 10 years in the development of Holly Hill Hospital in Raleigh. He tells us, "It has developed into what we feel is an excellent treatment center and is in the process of expansion." Quinn has cut back his own practice to four days a week, he says, to free up some time for his wife Pat and himself to enjoy some weekends.

David L. Kelly Jr., M.D. '59, is professor and head of the neurosurgery section at the Bowman Gray School of Medicine in Winston-Salem.

Henry L. Kiser, M.D. '59, announced the opening of his office for the practice of general medicine-pediatrics in Bessemer City, where he is affiliated with Kings Mountain Hospital.

Edwin L. Stewart, M.D. '59, who's in neurology practice in Clearwater, Fla., writes "We still get nostalgic for North Carolina and sometimes wonder how we came to settle down so far away." He says that he and his wife Caroline enjoy the fairly relaxed lifestyle of west coast Florida, and what they enjoy the most are their three granddaughters that also live there.

Robert Lee West, M.D. '59, is associate professor of pathology at the East Carolina University School of Medicine. He's got four children in assorted colleges across the state: one at UNC, one at N. C. State, one at ECU and one at Lenoir Community.

60s

John R. Curtis, M.D. '60, director of the University of Georgia Health Service and an immediate past president of the Georgia Psychiatric Association, was recently appointed clinical professor of psychiatry at the Medical College of Georgia. He also is a clinical professor of psychiatry at Emory University Medical School. Curtis has been chairman of the Governor's Council on Mental Health and Mental Retardation and president of the American College Health Association. In 1980 he was named the state's psychiatrist of the year by the Georgia Psychiatric Association.

Robert E. Price Jr., M.D. '64, is in private practice of neurosurgery in Durham. He has clinical appointments at both UNC-CH and Duke.

Wayne B. Venters, M.D. '64, is an orthopaedic surgeon in Jacksonville, N.C. He is vice president of the North Carolina Orthopaedic Association and program chairman for the committee on the Medical Aspects of Sports of the North Carolina Medical Society. An avid sportsman he's a national trustee for Ducks Unlimited, Inc., and Eastern North Carolina director for the North Carolina Chapter of the National Wild Turkey Federation.

Clifford R. Wheeless Jr., M.D. '64, of Baltimore has faculty appointments at Johns Hopkins and at the University of Maryland. He's also chief of ob gyn at the Union Memorial Hospital in Baltimore. He writes that, "After 20 years, I'm still amazed at the advanced medical education we received from 1960-64."

W. Beverly Tucker, M.D. '66, a family physician in Henderson, has served as president of the Seaboard Medical Association the past year. He presided over the recent 89th Annual Session held in Kill Devil Hills.

R. Frank Lowry Jr., M.D. '68, has joined ophthalmologist Dr. Deborah Schumann in her practice in Cary. He previously was in private practice in Roanoke Rapids.

James E. Drake, M.D. '68, has joined the staff of Stanly Memorial Hospital full time. This has increased the hours that the hospital has a radiologist on duty. Because of Drake's affiliation with Chapel Hill Radiology, when he is not on duty a tele-transmission unit is used to transmit X-ray images over telephone lines to Chapel Hill Radiology. Under this arrangement, X-rays maybe interrupted 24-hours a day.

C. Richard (Dick) Fleming, M.D. '69, is associate professor of medicine and director of the GI training program at the Mayo Medical School in Rochester, Minn. Much of his time is spent in the nutritional support of patients with severe Crohn's disease and or short bowel syndrome.

James S. Powers, M.D. '69, is assistant professor of obstetrics and gynecology at Georgetown University Medical Center. He is a fellow in the American Fertility Society.

Bertram W. Coffer, M.D. '69, is chief of anesthesiology at Rex Hospital in Raleigh. He also is on the staff of Raleigh Community Hospital and has a clinical appointment at UNC-CH. He's a consultant to the North Carolina Central Prison Hospital and a past president of the North Carolina Society of Anesthesiologists.

70s

McNeil Gibson, M.D. '72, has joined the Mecklenburg Medical Group, an internal medicine group practice in Charlotte.

Colin Jones, M.D. '73, of Winton and his wife Patsy had their second child, Martina Annette, in April. They have moved into a renovated farm house on the banks of the Potecasi Creek. They invite their friends and classmates to come for a visit.

Elizabeth A. Keller, M.D. '73, of Brookline, Mass., and her husband Dr. David Savitz announce the birth of a son Paul Abraham Savitz born in May.

Lindian Joseph Swaim Jr., M.D. '73, and Brenda Lou Forrest were married July 28. They are living in Raleigh, where Swaim is in practice in the Ruark Clinic.

Jessica L. Thomason, M.D. '74, is head of the infectious diseases section of the department of obstetrics and gynecology at the University of Wisconsin Medical School. She was named to this position earlier this year after holding similar position for the past two years at the University of Illinois College of Medicine at Chicago.

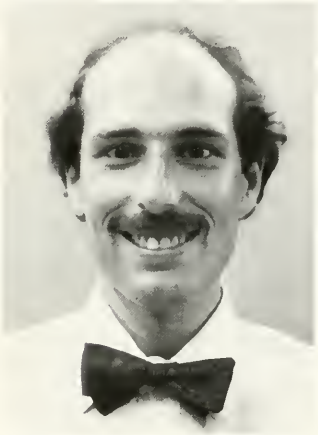
Brent Ferrell, M.D. '75, has joined Shelby Medical Associates, P.A. as a specialist in internal medicine and rheumatology. Since 1982, Ferrell has been an assistant professor in rheumatology at the George Washington University Medical Center, Washington, D.C.

Pamela Rand, M.D. '75, of Santa Monica, Calif., was a guest speaker at a recent meeting of Los Angeles Women in Business. Rand presented the latest developments in cosmetic dermatology: collegen injection and vein sclerosing.

Richard T. Fritz, M.D. '76, has joined the department of radiology at Nash General Hospital. He specializes in diagnostic radiology.

Ray Thigpen, M.D. '76, and associates of Whiteville have opened a satellite clinic in Fair Bluff.

J. Thomas Newton, M.D. '77, has established a family medicine practice in the Clinton Medical Clinic. He completed his residency this summer at Roanoke Virginia Memorial Hospital.



Stuart Segerman, M.D. '78, was elected to fellowship in the American Academy of Pediatrics. A clinical instructor in pediatrics at Emory University School of Medicine, Segerman also recently was named medical director of the Emergency Care Unit at St. Joseph's Hospital in Atlanta. He is co-director of Emergency Care of Atlanta, Inc., a group of six physicians specializing in emergency medicine.

Ira R. Friedlander, M.D. '79, and **L. Ann Nunnally, M.D. '79,** are delighted to announce their marriage on May 20, 1984 in Chicago. They were especially delighted that **Margie Sved, M.D. '79,** attended the wedding. They send their classmates the message: "Come up and visit us any time."

Kent Kalina, M.D. '79, has opened a private practice of psychiatry in Charlotte. He also works with the Anson Unit of Sandhills Center for Mental Health, Mental Retardation and Substance Abuse Services and the Moore County Unit of the Sandhills Mental Health Center.

William L. Stewart, M.D. '79, of Southern Pines has been named a fellow in the American Academy of Pediatrics by the academy's executive board.

80s

Mary Padgett Baucom, M.D. '80, a clinical instructor in internal medicine at Charlotte Memorial Hospital, has been elected to the American College of Physicians.

Leslie Taylor, M.D. '80, has joined the full-time staff of Johnston Memorial Hospital. Taylor is a pathologist.

Teresa Faison Hale, LPT '81, has become director of physical therapy at Springmoor, a life-care retirement community in Raleigh.

Garland King, M.D. '81, a family practitioner, has joined Wayah Medical Associates of Franklin.

John Rowland Mangum, M.D. '81, of Sanford is one of seven new doctors who have recently joined the staff at Central Carolina Hospital. Mangum is in family medicine.

Henry F. Mason, M.D. '81, has joined High Point Infant & Child Clinic, Inc. Mason and wife Virginia have two children, William and Elizabeth.

Ann Elizabeth Peterson, M.D. '81, of Winston-Salem has joined Hoots Memorial Hospital in family practice.

William T. Thorwarth, H.S. '81, is one of seven physicians recently joining Frye Regional Medical Center. Thorwarth also has joined the Catawba Radiologic Associates.

Pamela J. Whitney, H.S. '81, has announced the opening of her office for the practice of neurology in Raleigh.

Mark Hammer, M.D. '82, married Susan Elizabeth Beaty June 16. Hammer is a resident in psychiatry at UNC-CH. His new wife is a nurse at N.C. Memorial.

Charles S. Stinson, M.D. '83, has completed his internship in internal medicine at the University Hospital in Birmingham and is continuing his residency there. Stinson was the recipient of the Osler Award presented at the annual medicine housestaff banquet. The Osler Award is given to the intern who demonstrates excellence in clinical diagnosis.

Molly V. Allen, H.S. '84, has joined the Coastal Carolina Eye Clinic, P.A. practice of ophthalmology in Wilmington.

Kevin Owen Easley, M.D. '84, married Karen Lynn Goebel May 26. They are living in Charlottesville, where Easley has begun his residency in obstetrics and gynecology.

Greta Setzer, M.D. '84, and Alan Brent Cates were married May 19. They are living in Columbia, S.C. where Setzer has begun her postgraduate training in family medicine at Richland Memorial Hospital. Setzer, from Bessemer City, was the first female and the first black graduate of Bessemer City High School to receive an M.D. degree.

Joan Edwin Wynn, M.D. '84, is the first female doctor from Jones County. Wynn has begun her internship at Harlem Hospital, New York City.

Michael Linn Russell, class of '85, and Amy Clark Vaughan were married June 16.

Oscar Jet Webb, class of '86, and Kirsten Marie Gross were married May 27.

Charles Alan Ross, class of '87, and Janet LaDoan Coats were married August 10.

Deaths

George R. Benton Jr., C. Med. '32, Goldsboro
Leonard E. Fields, C. Med. '17, Chapel Hill
Haskell W. Fox, C. Med. '31, Greenville, Tenn.
Ray W. Hayworth, C. Med. '16, Asheboro
Ruth Dixon Henley, C. Med. '33, Winston-Salem
Cora Corpening Kornegay, C. Med. '16, Virginia Beach
Bishop Malpass, C. Med. '26, Pensacola, Fla.
Richard M. Margolis, C. Med. '49, St. Louis
Matthew J. McNeely Jr., C. Med. '24, Leesburg, Fla.
Walker Stamps, C. Med. '35, Hampton, Va.

Calendar

Medical alumni activities

February 1985		
1	Lawerence Zollicoffer Lecture	Chapel Hill
March		
15-16	Medical Alumni Weekend	Chapel Hill
29	Alumni reception during American College of Physicians meeting	Washington, D.C.
May		
3	Alumni reception during N.C. Medical Society meeting	Pinehurst

Continuing education

November		
16-17	Neurosurgery Laser Workshop	UNC-CH
25-30	Fellowships in Family Medicine	UNC-CH
30-Dec. 2	Current topics in GI Disease Management	UNC-CH
December		
1	Residents day in Ophthalmology	UNC-CH
January 1985		
TBA	Clinical Hypnosis	Chapel Hill
9-Feb. 13	First District Medical Society Postgraduate Course	Varied Locations
16-18	Alcoholism: The Search for the Sources	Radisson Hotel, Raleigh
31-Feb. 2	Womack Surgical Society	Carolina Inn, Chapel Hill

For more information about C.M.E. courses, contact the Office of Continuing Medical Education, 231 MacNider 202H, Chapel Hill, N.C. 27514 (919) 962-2118

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